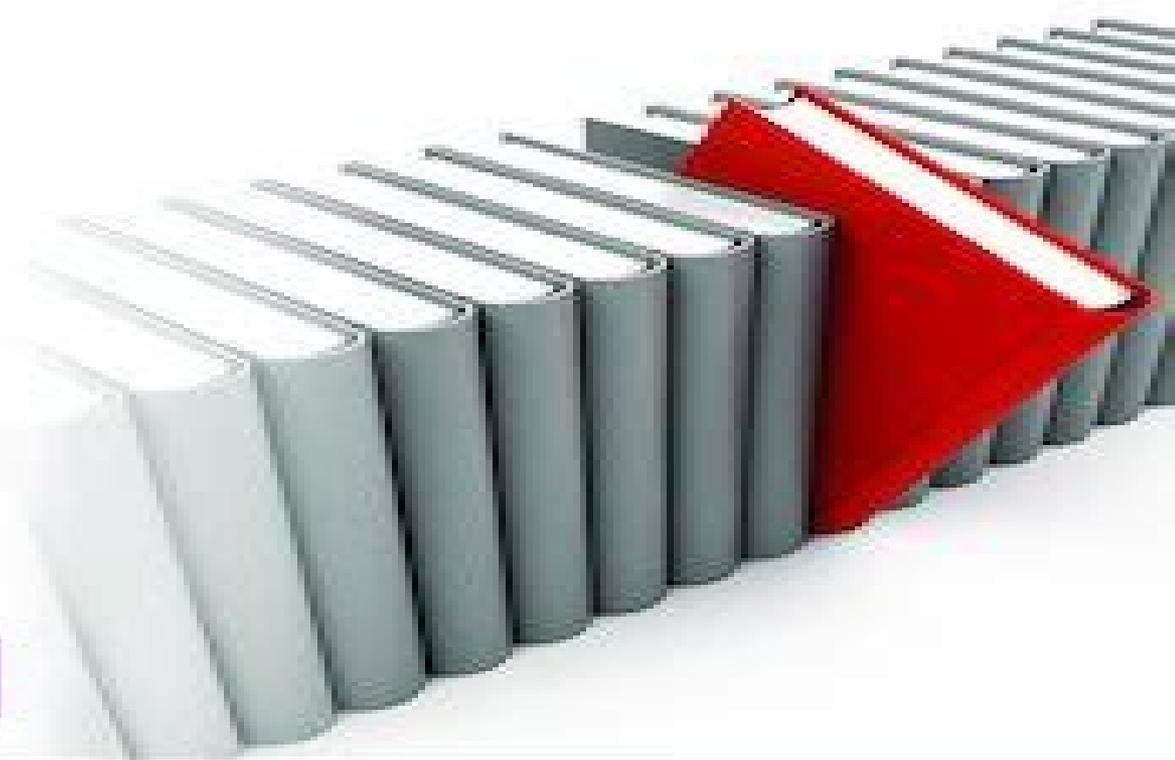


# Introduction to the New Mainframe: IBM z/VSE Basics

Mike Ebbert  
Wolfgang Boesch  
Hans-Joachim Ebert  
Helmut Hellner  
Jerry Johnston  
Marco Kraft  
Wilhelm Miel  
Wayne O'Brien  
Bill Ogden  
Ingolf Salm  
Joerg Schmidbauer  
Martin Wallbrunn



**z Systems**

# Introduction To The New Mainframe Zvse Basics Ibm Redbooks

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## **Introduction To The New Mainframe Zvse Basics Ibm Redbooks:**

**Introduction to the New Mainframe: z/OS Basics** Mike Ebbers, John Kettner, Wayne O'Brien, Bill Ogden, IBM Redbooks, 2012-01-04 This IBM Redbooks publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of books designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. 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 book 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 or a reference book that discusses every feature and option of the mainframe facilities. Others who will benefit from this book 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.

**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 (ITSO) 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

Introduction to the New Mainframe ,2007 This IBM Redbooks publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer It is the first in a planned series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing 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 nor is it a reference book that discusses every feature and option of the mainframe facilities Others who will 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

**Introduction to the New Mainframe** Mike Ebbers,2016 Based on the full text book produced by the International Technical Support Organization ITSO this IBM Redbook publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer

**Enhanced Networking on IBM z/VSE** Joerg Schmidbauer,Jeffrey Barnard,Ingo Franzki,Karsten Graul,Don Stoever,Rene Trumpp,IBM Redbooks,2014-12-31 The importance of modern computer networks is steadily growing as increasing amounts of data are exchanged over company intranets and the Internet Understanding current networking technologies and communication protocols that are available for the IBM mainframe and System z operating systems is essential for setting up your network infrastructure with IBM z VSE This IBM Redbooks publication helps you install tailor and configure new networking options for z VSE that are available with TCP IP for VSE ESA IPv6 VSE and Fast Path to Linux on System z Linux Fast Path We put a strong focus on network security and describe how the new OpenSSL based SSL runtime component can be used to enhance the security of your business This IBM Redbooks publication extends the information that is provided in Security on IBM z VSE SG24 7691

**Introduction to the New Mainframe: z/VM Basics** Lydia Parziale,Edi Lopes Alves,Klaus Egeler,Clive Jordan,Jason Herne,Eli M Dow,Eravimangalath P Naveen,Manoj S Pattabhiraman,Kyle Smith,IBM Redbooks,2008-01-10 This textbook provides students with the background knowledge and

skills necessary to begin using the basic functions and features of z VM Version 5 Release 3 It is part of a series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing For optimal learning students are assumed to be literate in personal computing and have some computer science or information systems background Others who will benefit from this textbook include z OS professionals who would like to expand their knowledge of other aspects of the mainframe computing environment This course can be used as a prerequisite to understanding Linux on System z After reading this textbook and working through the exercises the student will have received a basic understanding of the following topics The Series z Hardware concept and the history of the mainframe Virtualization technology in general and how it is exploited by z VM Operating systems that can run as guest systems under z VM z VM components The z VM control program and commands The interactive environment under z VM CMS and its commands z VM planning and administration Implementing the networking capabilities of z VM Tools to monitor the performance of z VM systems and guest operating systems The REXX programming language and CMS pipelines Security issues when running z VM

**IBM HiperSockets Implementation Guide** Mike Ebbers, Micky Reichenberg, Alexandra Winter, IBM Redbooks, 2014-06-10 This IBM Redbooks publication provides information about the IBM System z HiperSockets™ function It offers a broad description of the architecture functions and operating systems support This publication will help you plan and implement HiperSockets It provides information about the definitions needed to configure HiperSockets for the supported operating systems This book is intended for system programmers network planners and systems engineers who want to plan and install HiperSockets A solid background in network and Transmission Control Protocol Internet Protocol TCP IP is assumed

**OSA-Express Implementation Guide** Mike Ebbers, Wonjin Chung, Dody Kurniadi, Joselito Manoto, IBM Redbooks, 2014-06-04 This IBM Redbooks publication will help you to install tailor and configure the Open Systems Adapter OSA features that are available on IBM zEnterprise servers It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments This information will help you with planning and system setup This book also includes helpful utilities and commands for monitoring and managing the OSA features This information will be helpful to systems engineers network administrators and system programmers who plan for and install OSA features The reader is expected to have a good understanding of IBM System z hardware Hardware Configuration Definition HCD or the input output configuration program IOCP Open Systems Adapter Support Facility OSA SF Systems Network Architecture Advanced Peer to Peer Networking SNA APPN and TCP IP protocol

[What On Earth is a Mainframe?](#) David Stephens, 2008-10-08 Confused about zSeries Mainframes Need to understand the z OS operating system and in a hurry Then you ve just found the book you need Avoiding technical jargon this book gives you the basic facts in clear light hearted entertaining English You ll quickly learn what Mainframes are what they do what runs on them and terms and terminology you need to speak Mainframe ese But it s not all technical There s also invaluable information on the people that

work on Mainframes Mainframe management issues new Mainframe trends and other facts that don't seem to be written down anywhere else Programmers managers recruitment consultants and industry commentators will all find this book their new best friend when trying to understand the Mainframe world

Introduction to the New Mainframe: Security Rica Weller, Ross Clements, Ken Dugdale, Per Fremstad, Olegario Hernandez, William C. Johnston, Patrick Kappeler, Linda Kochersberger, Abey Tedla, Jeff Thompson, Ashwin Venkatraman, IBM Redbooks, 2007-04-26 This book provides students of information systems with the background knowledge and skills necessary to begin using the basic security facilities of IBM System z It enables a broad understanding of both the security principles and the hardware and software components needed to insure that the mainframe resources and environment are secure It also explains how System z components interface with some non System z components A multi user multi application multi task environment such as System z requires a different level of security than that typically encountered on a single user platform In addition when a mainframe is connected in a network to other processors a multi layered approach to security is recommended Students are assumed to have successfully completed introductory courses in computer system concepts Although this course looks into all the operating systems on System z the main focus is on IBM z OS Thus it is strongly recommended that students have also completed an introductory course on z OS Others who will benefit from this course include experienced data processing professionals who have worked with non mainframe based platforms as well as those who are familiar with some aspects of the mainframe environment or applications but want to learn more about the security and integrity facilities and advantages offered by the mainframe environment

Securing Your Cloud: IBM z/VM Security for IBM z Systems and LinuxONE Lydia Parziale, Edi Lopes Alves, Vic Cross, Klaus Egeler, Klaus Mueller, William Rampazzo, IBM Redbooks, 2016-10-19 As workloads are being offloaded to IBM z Systems™ based cloud environments it is important to ensure that these workloads and environments are secure This IBM Redbooks publication describes the necessary steps to secure your environment for all of the components that are involved in a z Systems cloud infrastructure that uses IBM z VM and Linux on z Systems The audience for this book is IT architects and those planning to use z Systems for their cloud environments

z/VM and Linux Operations for z/OS System Programmers Lydia Parziale, Omar Badreddin, Roy P Costa, Rodrigo Ceron Ferreira de Castro, Marian Gasparovic, Kenneth P Haas, Guillaume Lasmayous, Raymond Van Deurs, IBM Redbooks, 2008-10-28 This IBM Redbooks publication discusses z VM and Linux operations from the perspective of the z OS programmer or system programmer Although other books have been written about many of these topics this book gives enough information about each topic to describe z VM and Linux on IBM System z operations to somebody who is new to both environments This book is intended for z OS programmers and system programmers who are transitioning to the z VM and Linux on System z environments and who want a translation guide for assistance We base this book on our experiences using System z10 Enterprise Edition z VM version 5.3 RSU 0701 and Novell SUSE Linux Enterprise Server SLES 10 on System z

Reduce Risk and Improve Security on IBM Mainframes: Volume 1

*Architecture and Platform Security* Axel Buecker, Boudhayan Chakrabarty, Lennie Dymoke-Bradshaw, Cesar Goldkorn, Brian Hugenbruch, Madhukar Reddy Nali, Vinodkumar Ramalingam, Botrous Thalouth, Jan Thielmann, IBM Redbooks, 2016-03-22 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM System z hardware and software In an age of increasing security consciousness IBM System z provides the capabilities to address the needs of today's business security challenges This publication explores how System z hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements This book highlights the features of IBM z OS and other operating systems which offer various customizable security elements under the Security Server and Communication Server components This book describes z OS and other operating systems and additional software that leverage the building blocks of System z hardware to provide solutions to business security needs This publication's intended audience is technical architects planners and managers who are interested in exploring how the security design and features of System z the z OS operating system and associated software address current issues such as data encryption authentication authorization network security auditing ease of security administration and monitoring

*Storage Systems* Alexander Thomasian, 2021-10-13 Storage Systems Organization Performance Coding Reliability and Their Data Processing was motivated by the 1988 Redundant Array of Inexpensive Independent Disks proposal to replace large form factor mainframe disks with an array of commodity disks Disk loads are balanced by striping data into strips with one strip per disk and storage reliability is enhanced via replication or erasure coding which at best dedicates  $k$  strips per stripe to tolerate  $k$  disk failures Flash memories have resulted in a paradigm shift with Solid State Drives SSDs replacing Hard Disk Drives HDDs for high performance applications RAID and Flash have resulted in the emergence of new storage companies namely EMC NetApp SanDisk and Purestorage and a multibillion dollar storage market Key new conferences and publications are reviewed in this book The goal of the book is to expose students researchers and IT professionals to the more important developments in storage systems while covering the evolution of storage technologies traditional and novel databases and novel sources of data We describe several prototypes FAWN at CMU RAMCloud at Stanford and Lightstore at MIT Oracle's Exadata AWS Aurora Alibaba's PolarDB Fungible Data Center and author's paper designs for cloud storage namely heterogeneous disk arrays and hierarchical RAID Surveys storage technologies and lists sources of data measurements text audio images and video Familiarizes with paradigms to improve performance caching prefetching log structured file systems and merge trees LSMs Describes RAID organizations and analyzes their performance and reliability Conserves storage via data compression deduplication compaction and secures data via encryption Specifies implications of storage technologies on performance and power consumption Exemplifies database parallelism for big data analytics deep learning via multicore CPUs GPUs FPGAs and ASICs e.g. Google's Tensor Processing Units

*Introduction to the New Mainframe*, 2007

*Introduction to the New Mainframe* Bill Ogden, Mike Ebbers, Wayne O'Brien, Rama Ayyar, Myriam Duhamel, Per

Fremstad, Luis Fuentes, Miriam Gelinski, Michael Grossmann, Olegario Hernandez, Roberto Hiratzuka, John Kettner, Georg Müller, Rod Neufeld, Paul Newton, Bill Seubert, Henrik Thorsen, Andy Wilkinson, 2006 This IBM Redbook provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. 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, nor is it a reference book that discusses every feature and option of the mainframe facilities. Others who will 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 material and can include topics not covered in this textbook. This book is also offered with a textbook cover instead of a redbook cover in PDF and hardcopy formats. Download PDF of book with textbook cover 6.0 MB. Order hardcopy of book with textbook cover. Note: The contents of the book are identical in both the textbook and redbook versions, except for the covers.

**Introduction to the New Mainframe** John Kettner, Mike Ebbers, Wayne O'Brien, Bill Ogden, 2011 This IBM Redbook publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of books designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. 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 book 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 or a reference book that discusses every feature and option of the mainframe facilities. Others who will benefit from this book 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. *IBM z15 Technical Introduction* Bill White, Octavian Lascu, John

Troy, Jannie Houlbjerg, Frank Packheiser, Paul Schouten, Kazuhiro Nakajima, Anna Shugol, Hervey Kamga, IBM Redbooks, 2021-05-03 This IBM Redbooks publication introduces the latest member of the IBM Z platform the IBM z15™ It includes information about the Z environment and how it helps integrate data and transactions more securely It also provides insight for faster and more accurate business decisions The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity and occupies an industry standard footprint It is offered as a single air cooled 19 inch frame called the z15 T02 or as a multi frame 1 to 4 19 inch frames called the z15 T01 Both z15 models excel at the following tasks Using hybrid multicloud integration services Securing and protecting data with encryption everywhere Providing resilience with key to zero downtime Transforming a transactional platform into a data powerhouse Getting more out of the platform with operational analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and IBM Z technologies This book explains how this system uses innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk [Introduction to the New Mainframe](#) Mike Ebbers, Pilar Adrados, Frank Byrne, Rodney Martin, Jon Veilleux, 2006 Today mainframe computers play a central role in the daily operations of most of the world's largest corporations While other forms of computing are used in business in various capacities the mainframe occupies a prominent place in today's e business environment In banking finance health care insurance utilities government and a multitude of other public and private enterprises the mainframe computer continues to provide the foundation of large scale computing to modern business The reasons for mainframe use are many but generally fall into one or more of the following categories capacity scalability integrity and security availability access to large amounts of data system management and autonomic capabilities This IBM Redbooks publication is designed for readers who already possess a basic knowledge of mainframe computing but need a clearer understanding of how these concepts relate to mainframe planning implementation and operation For readers who need more introductory information about mainframe concepts usage and architecture we recommend that you complete [Introduction to the New Mainframe z OS Basics SG24 6366](#) prior to starting this book And for more detailed information about z OS programming topics refer to the 11 volume book series [ABCs of z OS System Programming](#) [Enhanced Networking on IBM Z/VSE](#) Joerg Schmidbauer, Jeffrey Barnard, Ingo Franzki, Karsten Graul, Don Stoeber, Rene Trumpp, 2014 The importance of modern computer networks is steadily growing as increasing amounts of data are exchanged over company intranets and the Internet Understanding current networking technologies and communication protocols that are available for the IBM mainframe and System z operating systems is essential for setting up your network infrastructure with IBM z VSE This IBM Redbooks publication helps you install tailor and configure new networking options for z VSE that are available with TCP/IP for VSE ESA IPv6 VSE and Fast Path to Linux

on System z Linux Fast Path We put a strong focus on network security and describe how the new OpenSSL based SSL runtime component can be used to enhance the security of your business This IBM Redbooks publication extends the information that is provided in Security on IBM z VSE SG24 7691

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