



Ibm X3550 M3 Redbook

**Scott Vetter, Giuliano
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Schmidt, Guido Somers, IBM Redbooks**

Ibm X3550 M3 Redbook:

Set up Linux on IBM System z for Production Lydia Parziale, Saulo Silva, David Borges De Sousa, Livio Sousa, Junius Mills, Qi Ye, IBM Redbooks, 2013-11-25 This IBM Redbooks publication shows the power of IBM System z virtualization and flexibility in sharing resources in a flexible production environment In this book we outline the planning and setup of Linux on System z to move from a development or test environment into production As an example we use one logical partition LPAR with shared CPUs with memory for a production environment and another LPAR that shares some CPUs but also has a dedicated one for production Running in IBM z VM mode allows for virtualization of servers and based on z VM shares can prioritize and control their resources The size of the LPAR or z VM resources depends on the workload and the applications that run that workload We examine a typical web server environment Java applications and describe it by using a database management system such as IBM DB2 Network decisions are examined with regards to VSWITCH shared Open Systems Adapter OSA IBM HiperSockets™ and the HiperPAV or FCP SCSI attachment used with a storage area network SAN Volume Controller along with performance and throughput expectations The intended audience for this IBM Redbooks publication is IT architects who are responsible for planning production environments and IT specialists who are responsible for implementation of production environments

IBM z/OS V2R2: Security Keith Winnard, Jose Gilberto Biondo Jr, Wilson de Figueiredo, Paul Robert Hering, IBM Redbooks, 2015-12-17 This IBM Redbooks publication helps you to become familiar with the technical changes that were introduced to the security areas with IBM z OS V2R2 The following chapters are included Chapter 1 RACF updates on page 1 In this chapter we describe the read only auditor attribute password security enhancements RACDCERT granular certificate administration UNIX search authority and RACF Remote sharing facility RRSF Chapter 2 LDAP updates on page 13 In this chapter we describe the activity log enhancements compatibility level upgrade without LDAP outage dynamic group performance enhancements and replication of password policy attributes from a read only replica Chapter 3 PKI updates on page 21 In this chapter we describe the Network Authentication Service KERBEROS PKINIT PKI nxm authorization PKI OCSP enhancement and RACDCERT granular certificate administration Chapter 4 z OS UNIX search and file execution authority on page 27 z OS UNIX search authority z OS UNIX file execution Examples for exploiting the new functions This book is one of a series of IBM Redbooks that take a modular approach to providing information about the updates that are included with 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 and we welcome your feedback

IBM System z Personal Development Tool Messages and Codes Bill Ogden, IBM Redbooks, 2016-08-29 This IBM Redbooks publication provides all the messages that are associated with IBM System z Personal Development Tool IBM zPDT operation in a single reference source This edition is intended for zPDT Version 1 Release 6 commonly known as GA6 but should be useful for all

zPDT releases **IBM z/OS V2R2: Operations** Keith Winnard,Natalia Barros,Jose Gilberto Biondo Jr,Wilson de Figueiredo,Paul Robert Hering,Jaqueline Mourao,Ewerton Waki,IBM Redbooks,2017-01-10 This IBM Redbooks publication helps you to become familiar with the technical changes that were introduced into the Operations areas with IBM z OS V2R2 This book includes the following chapters Chapter 1 SMFLIMxx parmlib member on page 1 describes how to set up job cancel decisions and region and MEMLIMIT values based on the job and its environment Chapter 2 REGIONX on page 5 describes the new REGIONX JCL keyword that supports two storage specifications and with which the user can specify values for their below the line storage and above the line storage needs Chapter 3 Two million open data sets on page 9 describes the ability to have open up to 2 000 000 data sets at a time by address spaces while reducing the allocation time for data sets Chapter 4 Dynamic APF SMF Record on page 11 describes the new SMF record that is used to track dynamic APF changes Chapter 5 Initial program load device number and volume on page 13 describes the new message that is used to identify the initial program load IPL device and volume Chapter 6 Infoprint enhancements on page 15 describes the enhancements that were made to Infoprint in z OS V2R2 Chapter 7 GRS EQDQ Monitor on page 19 describes the monitor capture diagnostics for problem determination while minimizing the effect to system performance Chapter 8 BCPii System Management Facilities recording on page 23 describes the record changes to hardware Chapter 9 Provisioning based on CPU consumption on page 25 describes the provisioning that is dynamically based on CPU consumption Chapter 10 System REXX enhancements on page 31 describes the new functions and interfaces of System Rexx 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 with 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 and we welcome your feedback *Getting Started: Journey to Modernization with IBM Z* Makenzie Manna,Ravinder Akula,Matthew Cousens,Pabitra Mukhopadhyay,Anand Shukla,IBM Redbooks,2021-03-15 Modernization of enterprise IT applications and infrastructure is key to the survival of organizations It is no longer a matter of choice The cost of missing out on business opportunities in an intensely competitive market can be enormous To aid in their success organizations are facing increased encouragement to embrace change They are pushed to think of new and innovative ways to counter or offer a response to threats that are posed by competitors who are equally as aggressive in adopting newer methods and technologies The term modernization often varies in meaning based on perspective This IBM Redbooks publication focuses on the technological advancements that unlock computing environments that are hosted on IBM Z to enable secure processing at the core of hybrid This publication is intended for IT executives IT managers IT architects System Programmers and Application Developer professionals Set Up Linux on IBM System Z for Production Lydia Parziale,2013 *IBM z13 Technical Guide* Octavian Lascu,Edzard Hoogerbrug,Cecilia A De Leon,Ewerson Palacio,Franco Pinto,Barbara

Sannerud,Martin Soellig,John Troy,Jin Yang,IBM Redbooks,2016-11-11 Digital business has been driving the transformation of underlying IT infrastructure to be more efficient secure adaptive and integrated Information Technology IT must be able to handle the explosive growth of mobile clients and employees IT also must be able to use enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the IBM Mainframe the IBM z13™ The IBM z13 is the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the z13 to deliver a record level of capacity over the prior IBM z Systems™ In its maximum configuration z13 is powered by up to 141 client characterizable microprocessors cores running at 5 GHz This configuration can run more than 110 000 millions of instructions per second MIPS and up to 10 TB of client memory The IBM z13 Model NE1 is estimated to provide up to 40% more total system capacity than the IBM zEnterprise EC12 zEC1 Model HA1 This book provides information about the IBM z13 and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology **IBM z/OS V2R2:**

Availability Management Keith Winnard,Wilson de Figueiredo,Redelf JanBen,Paulo Cesar Nascimento,Eweton Waki,IBM Redbooks,2015-12-17 This IBM Redbooks publication helps you to become familiar with the technical changes that were introduced into the Availability Management areas with IBM z OS V2R2 This book is one of a series of IBM Redbooks that take a modular approach to providing information about the updates that are included with 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 and we welcome your feedback

IBM z13s Technical Guide Octavian Lascu,Barbara Sannerud,Cecilia A. De Leon,Edzard Hoogerbrug,Ewerson Palacio,Franco Pinto,Jin J. Yang,John P. Troy,Martin Soellig,IBM Redbooks,2016-11-10 Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the new IBM z Systems™ single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with

a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13s servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z Systems server In its maximum configuration the z13s server is powered by up to 20 client characterizable microprocessors cores running at 4.3 GHz This configuration can run more than 18 000 millions of instructions per second MIPS and up to 4 TB of client memory The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise BC12 Model H13 This book provides information about the IBM z13s server and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems™ functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology

IBM Platform Computing Integration Solutions Dino Quintero,Ricardo Barros,Ashraf Goma,José Higino,Archana Kumar,Majid Ouassir,Adam Parker,Joanna Wong,2013 This IBM Redbooks publication describes the integration of IBM Platform Symphony with IBM BigInsights It includes IBM Platform LSF implementation scenarios that use IBM System x technologies This IBM Redbooks publication is written for consultants technical support staff IT architects and IT specialists who are responsible for providing solutions and support for IBM Platform Computing solutions This book explains how the IBM Platform Computing solutions and the IBM System x platform can help to solve customer challenges and to maximize systems throughput capacity and management It examines the tools utilities documentation and other resources that are available to help technical teams provide solutions and support for IBM Platform Computing solutions in a System x environment In addition this book includes a well defined and documented deployment model within a System x environment It provides a planned foundation for provisioning and building large scale parallel high performance computing HPC applications cluster management analytics workloads and grid applications

IBM z/OS V2R2: User Interfaces Keith Winnard,Paul Robert Hering,IBM Redbooks,2015-12-17 This IBM Redbooks publication helps you to become familiar with the technical changes that were introduced into the User Interface areas of IBM z OS V2R2 This publication is one in a series of IBM Redbooks publications that take a modular approach to providing information about the updates 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 It is our hope that this approach is useful We value your feedback

The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12 Lydia Parziale,Berthold Gunreben,Filipe Miranda,Paul W Novak,Ken Werner,IBM Redbooks,2016-05-06 This IBM Redbooks publication is Volume 3

of a series of three books called The Virtualization Cookbook for IBM z Systems The other two volumes are called The Virtualization Cookbook for IBM z Systems Volume 1 IBM z VM 6 3 SG24 8147 The Virtualization Cookbook for IBM z Systems Volume 2 Red Hat Enterprise Linux 7 1 Servers SG24 8303 It is suggested that you start with Volume 1 of this series because IBM z VM is the base layer when installing Linux on IBM z Systems™ Volume 1 starts with an introduction describes planning and then describes z VM installation into a two node single system image SSI cluster configuration hardening automation and servicing It adopts a cookbook format that provides a concise repeatable set of procedures for installing and configuring z VM using the SSI clustering feature Volumes 2 and 3 describe how to roll your own Linux virtual servers on z Systems hardware under z VM The cookbook format continues with installing and customizing Linux Volume 3 focuses on SUSE Linux Enterprise Server 12 It describes how to install and configure SUSE Linux Enterprise Server 12 onto the Linux administration system which does the cloning and other tasks It also explains how to use AutoYaST2 which enables you to automatically install Linux using a configuration file and explains how to create and use appliances and bootable images from configuration files In addition it provides information about common tasks and tools available to service SUSE Linux Enterprise Server

IBM zEnterprise EC12 Configuration Setup Karan Singh,Sandra Tomoko Minami Abe,Srikanth R. Adige,Lei Ming Cao,Joao Francisco Veiga Kiffer,Woojin Lee,Gianmauro De Marchi,Kazuhiro Nakajima,Botrous Thalouth,IBM Redbooks,2013-05-28 This IBM Redbooks publication helps you install configure and maintain the IBM zEnterprise EC12 server The zEC12 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 book is intended for systems engineers hardware planners and anyone who needs to understand IBM System z configuration and implementation Readers should be generally familiar with current IBM System z technology and terminology For details about the zEC12 server see IBM zEnterprise EC12 Technical Introduction SG24 8050 and IBM zEnterprise EC12 Technical Guide SG24 8049

IBM Power 550 Technical Overview Scott Vetter,Giuliano Anselmi,YoungHoon Cho,Gregor Linzmeier,Marcos Quezada,John T Schmidt,Guido Somers,IBM Redbooks,2010-04-21 This IBM Redpaper™ is a comprehensive guide covering the Power 550 server The goal of this paper is to introduce the innovative Power 550 It introduces major hardware offerings and discusses their prominent functions including

- o The POWER6 processor available at frequencies of 3 5 GHz 4 2 GHz and 5 0 GHz
- o The specialized POWER6 DDR2 memory that provides greater bandwidth capacity and reliability
- o The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server
- o EnergyScale technology that provides features such as power trending power saving capping of power and thermal measurement
- o PowerVM Live Partition Mobility
- o Mainframe continuous availability brought to the UNIX environment

This Redpaper expands the current set of IBM System p documentation by providing a desktop reference that offers a detailed technical description of the 550 system This Redpaper does not replace the latest marketing materials and tools It is intended as an additional source of

information that together with existing sources may be used to enhance your knowledge of IBM server solutions **IBM Power 520 Technical Overview** Scott Vetter, Giuliano Anselmi, YoungHoon Cho, Jim Cook, Gregor Linzmeier, Marcos Quezada, John T Schmidt, Guido Somers, IBM Redbooks, 2010-04-02 This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server machine type model 8203 E4A The goal of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies The major hardware offerings include The POWER6 processor available at frequencies of 4.2 GHz and 4.7 GHz Specialized POWER6 DDR2 memory that provides greater bandwidth capacity and reliability The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server EnergyScale technology that provides features such as power trending power saving capping of power and thermal measurement PowerVM virtualization technology Mainframe continuous availability brought to the entry server environment This Redpaper expands the current set of IBM Power System documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system This Redpaper does not replace the latest marketing materials and tools It is intended as an additional source of information that together with existing sources can be used to enhance your knowledge of IBM server solutions **IBM Redbooks**, Presents IBM Corporation's redbooks a series of how to publications by IBM professionals from around the world Lists and describes currently featured redbooks including Business Processing Reengineering and Beyond Workgroup Management Using System View for OS/2 and A Holistic Approach to AIX V4.1 Migration Posts a redbook bibliography an overview of redbooks published in the last six months and a publications catalog Offers a search system to redbooks via subject categories guide topics country and pre defined search arguments Provides access to the IBM and Almaden Research Center home pages **IBM z14 (3906) Technical Guide** Octavian Lascu, IBM Redbooks, 2018-12-17 This IBM Redbooks publication describes the new member of the IBM Z family IBM z14™ IBM z14 is the trusted enterprise platform for pervasive encryption integrating data transactions and insights into the data A data centric infrastructure must always be available with a 99.999% or better availability have flawless data integrity and be secured from misuse It also must be an integrated infrastructure that can support new applications Finally it must have integrated capabilities that can provide new mobile capabilities with real time analytics that are delivered by a secure cloud infrastructure IBM z14 servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z14 servers to deliver a record level of capacity over the prior IBM Z platforms In its maximum configuration z14 is powered by up to 170 client characterizable microprocessors cores running at 5.2 GHz This configuration can run more than 146,000 million instructions per second MIPS and up to 32 TB of client memory The IBM z14 Model M05 is estimated to provide up to 35% more total system capacity than the IBM z13 Model NE1 This Redbooks publication provides information about IBM z14 and its functions features and associated software support More information is offered in areas that are relevant to technical

planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM Z servers functions and plan for their usage It is intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM Z technology and terminology

IBM Power 710 and 730 Technical Overview and

Introduction Scott Vetter,James Cruickshank,Sorin Hanganu,Volker Haug,Stephen Lutz,John T Schmidt,Marco Vallone,IBM Redbooks,2014-02-03 This IBM Redpaper™ publication is a comprehensive guide covering the IBM Power 710 8231 E1D and Power 730 8231 E2D servers that support IBM AIX IBM i and Linux operating systems This paper also describes the IBM PowerLinux™ 7R1 8246 L1D and 8246 L1T and the PowerLinux 7R2 8246 L2D and 8246 L2T servers that support the Linux operating system The goal of this paper is to introduce the innovative Power 710 Power 730 PowerLinux 7R1 and PowerLinux offerings and their major functions IBM POWER7™ processor is available at frequencies of 3.6 GHz 4.2 GHz and 4.3 GHz Larger IBM POWER7 Level 3 cache provides greater bandwidth capacity and reliability Integrated SAS SATA controller for HDD SSD tape and DVD supports built in hardware RAID 0 1 and 10 New IBM PowerVM V2.2.2 features such as 20 LPARs per core Improved IBM Active Memory™ Expansion technology provides more usable memory than is physically installed in the system Professionals who want to acquire a better understanding of IBM Power Systems™ products can benefit from reading this paper This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power 710 and Power 730 systems This paper does not replace the latest marketing materials and configuration tools It is intended as an additional source of information that together with existing sources can be used to enhance your knowledge of IBM server solutions

IBM z/OS V2R2: Storage

Management and Utilities Keith Winnard,Natalia Barros,Jose Gilberto Biondo Jr,Jaqueline Mourao,Alvaro Salla,Ewerton Waki,IBM Redbooks,2015-12-17 This IBM Redbooks publication helps you to become familiar with the technical changes that were introduced into the Storage Management and Utilities areas with IBM z/OS V2R2 This book is one of a series of IBM Redbooks that take a modular approach to providing information about the updates that are included with 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 and we welcome your feedback

IBM zEnterprise 196 Technical Guide Bill White,Erik Bakker,Parwez Hamid,Octavian Lascu,Fernando Nogal,Frank Packeiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM

Redbooks,2012-03-19 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise The zEnterprise System consists of the IBM zEnterprise 196 central processor complex the IBM zEnterprise Unified Resource

Manager and the IBM zEnterprise BladeCenter Extension The z196 is designed with improved scalability performance security resiliency availability and virtualization The z196 Model M80 provides up to 1.6 times the total system capacity of the z10™ EC Model E64 and all z196 models provide up to twice the available memory of the z10 EC The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This IBM Redbooks publication provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology The changes to this edition are based on the System z hardware announcement dated July 12 2011

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Ibm X3550 M3 Redbook Introduction

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