IBM Mainframe

ICSF

OKM GUI

Site 1

Site 2

Key Management Network

Wide Area Network

Key Management Network

KMA Cluster

KMA 1

KMA 2

KMA Cluster

KMA 3

KMA 4

Ethernet Switch

Ethernet Switch

SL8500

T9840D

T10000C

LTO 5

LTO 6

Tape Drives

T9840D

T10000C

LTO 5

LTO 6

Tape Drives

SL3000

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Ibm Icsf Manual

Arturo Cuomo

Ibm Icsf Manual:

   IBM zEnterprise 114 Technical Guide Bill White,Octavian Lascu,Erik Bakker,Parwez Hamid,Fernando Nogal,Frank Packheiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM Redbooks,2012-02-27 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 This IBM Redbooks publication discusses the IBM zEnterprise System an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of the IBM zEnterprise 114 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z114 is designed with improved scalability performance security resiliency availability and virtualization The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z OS z VM and Linux on System z over the z10TM Business Class BC The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7TM and System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book 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   *IBM zEnterprise BC12 Technical Guide* Octavian Lascu,Hua Bin Chu,Ivan Dobos,Luiz Fadel,Wolfgang Fries,Parwez Hamid,Fernando E Nogal,Frank Packheiser,Ewerson Palacio,Martijn Raave,Vicente Ranieri Jr.,Andre Spahni,Chen Zhu,IBM Redbooks,2015-03-03 The popularity of the Internet and the affordability of information technology IT hardware and software have resulted in an explosion dramatic increase in the number of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the IBM 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 This IBM Redbooks publication provides information about the IBM zEnterprise BC12 zBC12 an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The

zEnterprise System consists of the zBC12 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX The zBC12 is designed with improved scalability performance security resiliency availability and virtualization The zBC12 provides the following improvements over its predecessor the IBM zEnterprise 114 z114 Up to a 36% performance boost per core running at 4 2 GHz Up to 58% more capacity for traditional workloads Up to 62% more capacity for Linux workloads The zBX infrastructure works with the zBC12 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe IBM POWER7 and IBM System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book provides an overview of the zBC12 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 who wants to understand 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   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 z10TM 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 POWER7TM 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   *IBM z14 Model ZR1 Configuration Setup* Octavian Lascu,Martin Soellig,Ryotaroh

Sawada,Franco Pinto,Aditya Banuaji,IBM Redbooks,2019-11-19 This IBM Redbooks publication helps you install configure and maintain the IBM z14 Model ZR1 Machine Type 3907 The z14 ZR1 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM Z configuration and implementation Readers should be generally familiar with current IBM Z technology and terminology For more information about the functions of the z14 Model ZR1 see IBM z14 Model ZR1 Technical Introduction SG24 8550 and IBM z14 Model ZR1 Technical Guide SG24 8651 *IBM z13 Configuration Setup* Paolo Bruni,Tom Carielli,Mark Challen,Klaus Horn,Peter Hoyle,Kazuhiro Nakajima,Martin Soellig,IBM Redbooks,2016-11-10 This IBM Redbooks publication helps you install configure and maintain the IBM z13TM The z13 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM z SystemsTM configuration and implementation Readers should be generally familiar with current IBM z Systems technology and terminology For details about the functions of the z13 see IBM z13 Technical Introduction SG24 8250 and IBM z13 Technical Guide SG24 8251 IBM z14 Configuration Setup Octavian Lascu,Franco Pinto,Bill White,Peter Hoyle,Jannie Houlbjerg,Kazuhiro Nakajima,Nelson Oliveira,Martin Soellig,IBM Redbooks,2019-01-03 This IBM Redbooks publication helps you install configure and maintain the IBM z14 The z14 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM Z configuration and implementation Readers should be generally familiar with current IBM Z technology and terminology For more information about the functions of the z14 see IBM z14 Technical Introduction SG24 8450 and IBM z14 Technical Guide SG24 8451 **IBM z15 Configuration Setup** Octavian Lascu,Bill White,Nelson Oliveira,Franco Pinto,Ryotaroh Sawada,Martin Söllig,IBM Redbooks,2020-08-04 This IBM Redbooks publication helps you install configure and maintain the IBM z15TM machine types 8561 and 8562 systems The z15 systems offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM Z configuration and implementation Readers should be familiar with IBM Z technology and terminology For more information about the functions of the z15 systems see IBM z15 Technical Introduction SG24 8850 IBM z15 8561 Technical Guide SG24 8851 and IBM z15 8562 Technical Guide SG24 8852 Key Management Deployment Guide: Using the IBM Enterprise Key Management Foundation Axel Buecker,Mike Andreasen,Carsten Dahl Frehr,W. Craig Johnston,Alina Mot,Troels Norgaard,Soren Peen,Per

Snowman,IBM Redbooks,2014-10-12 In an increasingly interconnected world data breaches grab headlines The security of sensitive information is vital and new requirements and regulatory bodies such as the Payment Card Industry Data Security Standard PCI DSS Health Insurance Portability and Accountability Act HIPAA and Sarbanes Oxley SOX create challenges for enterprises that use encryption to protect their information As encryption becomes more widely adopted organizations also must contend with an ever growing set of encryption keys Effective management of these keys is essential to ensure both the availability and security of the encrypted information Centralized management of keys and certificates is necessary to perform the complex tasks that are related to key and certificate generation renewal and backup and recovery The IBM Enterprise Key Management Foundation EKMF is a flexible and highly secure key management system for the enterprise It provides centralized key management on IBM zEnterprise and distributed platforms for streamlined efficient and secure key and certificate management operations This IBM Redbooks publication introduces key concepts around a centralized key management infrastructure and depicts the proper planning implementation and management of such a system using the IBM Enterprise Key Management Foundation solution **IBM Tivoli Directory Server for z/OS** Karan Singh,Corey C Bryant,Jonathan Cottrell,Gillian Gainsford,Saheem Granados,Robert Green,Diane Lia,Nilesh T Patel,John M Walsh,IBM Redbooks,2011-07-07 This IBM Redbooks publication examines the IBM Tivoli Directory Server for z OS IBM Tivoli Directory Server is a powerful Lightweight Directory Access Protocol LDAP infrastructure that provides a foundation for deploying comprehensive identity management applications and advanced software architectures This publication provides an introduction to the IBM Tivoli Directory Server for z OS that provides a brief summary of its features and a examination of the possible deployment topologies It discusses planning a deployment of IBM Tivoli Directory Server for z OS which includes prerequisites planning considerations and data stores and provides a brief overview of the configuration process Additional chapters provide a detailed discussion of the IBM Tivoli Directory Server for z OS architecture that examines the supported back ends discusses in what scenarios they are best used and provides usage examples for each back end The discussion of schemas breaks down the schema and provides guidance on extending it A broad discussion of authentication authorization and security examines the various access protections bind mechanisms and transport security available with IBM Tivoli Directory Server for z OS This chapter also provides an examination of the new Password Policy feature Basic and advanced replication topologies are also covered A discussion on plug ins provides details on the various types of plug ins the plug in architecture and creating a plug in and provides an example plug in Integration of IBM Tivoli Directory Server for z OS into the IBM Workload Manager environment is also covered This publication also provides detailed information about the configuration of IBM Tivoli Directory Server for z OS It discusses deploying IBM Tivoli Directory Server for z OS on a single system with examples of configuring the available back ends Configuration examples are also provided for deploying the server in a Sysplex and for both basic and advanced replication topologies Finally it provides guidance on monitoring and

debugging IBM Tivoli Directory Server for z OS   **IBM System z Personal Development Tool: Volume 1 Introduction and Reference** Bill Ogden,IBM Redbooks,2013-06-24 This IBM Redbooks publication introduces the IBM System z Personal Development Tool zPDT which runs on an underlying Linux system based on an Intel processor zPDT provides a System z system on a PC capable of running current System z operating systems including emulation of selected System z I O devices and control units It is intended as a development demonstration and learning platform and is not designed as a production system This book providing an introduction is the first of three volumes The second volume describes the installation of zPDT including the underlying Linux and a particular z OS distribution and basic usage patterns The third volume discusses more advanced topics that may not interest all zPDT users The IBM order numbers for the three volumes are SG24 7721 SG24 7722 and SG24 7723 An additional volume SG24 7859 describes the use of zPDT in a Parallel Sysplex configuration The systems discussed in these volumes are complex with elements of Linux for the underlying PC machine z Architecture for the core zPDT elements System z I O functions for emulated I O devices and z OS providing the System z application interface and possibly with other System z operating systems We assume the reader is familiar with general concepts and terminology of System z hardware and software elements and with basic PC Linux characteristics   *Reduce Risk and Improve Security on IBM Mainframes: Volume 2 Mainframe Communication and Networking Security* Axel Buecker,Thomas Cosenza,Uma Kumaraguru,Christopher Meyer,Vinicius Oliveira,Vinodkumar Ramalingam,Jan Thielmann,Joe Welsh,IBM Redbooks,2015-09-25 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM z Systems hardware and software referred to in this book by the previous product name IBM System z In an age of increasing security consciousness and more dangerous and advanced persistent threats System z provides the capabilities to address today s business security challenges This book explores how System z hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements We highlight the features of IBM z OS and other operating systems that offer a variety of customizable security elements We also describe z OS and other operating systems and additional software that use the building blocks of System z hardware to meet business security needs We explore these from the perspective of an enterprise security architect and how a modern mainframe must fit into an enterprise security architecture This book is part of a three volume series that focuses on guiding principles for optimized mainframe security configuration within a holistic enterprise security architecture The intended audience includes enterprise security architects planners and managers who are interested in exploring how the security design and features of the System z platform 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   **IBM Journal of Research and Development** ,1992   Transitioning to Quantum-Safe Cryptography on IBM Z Bill White,Didier Andre,Gregg Arquero,Ritu Bajaj,Joe Cronin,Anne Dames,Henrik Lyksborg,Alexandra Miranda,Maxwell Weiss,IBM

Redbooks,2023-04-30 As cyberattacks continue to increase the cost and reputation impacts of data breaches remain a top concern across all enterprises Even if sensitive data is encrypted and is of no use now cybercriminals are harvesting that data because they might gain access to a quantum computer that can break classical cryptographic algorithms sometime in the future Therefore organizations must start protecting their sensitive data today by using quantum safe cryptography This IBM Redbooks publication reviews some potential threats to classical cryptography by way of quantum computers and how to make best use of today s quantum safe capabilities on the IBM Z platform This book also provides guidance about how to get started on a quantum safe journey and step by step examples for deploying IBM Z quantum safe capabilities This publication is intended for IT managers IT architects system programmers security administrators and anyone who needs to plan for deploy and manage quantum safe cryptography on the IBM Z platform The reader is expected to have a basic understanding of IBM Z security concepts *Reduce Risk and Improve Security on IBM Mainframes: Volume 3 Mainframe Subsystem and Application Security* Axel Buecker,Marcela Kanke,Mohit Mohanan,Vinicius Oliveira,Vinodkumar Ramalingam,David Rowley,Botrous Thalouth,Jan Thielmann,IBM Redbooks,2015-11-02 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM zTM Systems hardware and software In an age of increasing security consciousness and more and more dangerous advanced persistent threats IBM z SystemsTM provides the capabilities to address the needs of today s business security challenges This publication explores how z Systems hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements We highlight the features of IBM z OS and other operating systems which offer a variety of customizable security elements We discuss z OS and other operating systems and additional software that use the building blocks of z Systems hardware to provide solutions to business security needs We also explore the perspective from the view of an enterprise security architect and how a modern mainframe has to fit into an overarching enterprise security architecture This book is part of a three volume series that focuses on guiding principles for optimized mainframe security configuration within a holistic enterprise security architecture The series intended audience includes enterprise security architects planners and managers who are interested in exploring how the security design and features of z Systems 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 **Getting Started with z/OS Data Set Encryption** Bill White,Cecilia Carranza Lewis,Eysha Shirrine Powers,David Rossi,Eric Rossman,Andy Coulsonr,Jacky Doll,Brad Habbershow,Thomas Liu,Ryan McCarry,Philippe Richard,Romoaldo Santos,Isabel Arnold,Kasper Lindberg,IBM Redbooks,2021-12-10 This IBM Redpaper Redbooks publication provides a broad explanation of data protection through encryption and IBM Z pervasive encryption with a focus on IBM z OS data set encryption It describes how the various hardware and software components interact in a z OS data set encryption environment In addition this book concentrates on the planning and preparing of the environment and offers

implementation configuration and operational examples that can be used in z OS data set encryption environments This publication is intended for IT architects system programmer and security administrators who plan for deploy and manage security on the Z platform The reader is expected to have a basic understanding of IBM Z security concepts   System z Crypto and TKE Update Karan Singh,Lennie Dymoke-Bradshaw,Pekka Hanninen,Patrick Kappeler,IBM Redbooks,2011-06-20 This IBM Redbooks publication provides detailed information about the implementation of hardware cryptography in the System z10 server We begin by summarizing the history of hardware cryptography on IBM Mainframe servers introducing the cryptographic support available on the IBM System z10 introducing the Crypto Express3 feature briefly comparing the functions provided by the hardware and software and providing a high level overview of the application programming interfaces available for invoking cryptographic support This book then provides detailed information about the Crypto Express3 feature discussing at length its physical design its function and usage details the services that it provides and the API exposed to the programmer This book also provides significant coverage of the CP Assist for Cryptographic Functions CPACF Details on the history and purpose of the CPACF are provided along with an overview of cryptographic keys and CPACF usage details A chapter on the configuration of the hardware cryptographic features is provided which covers topics such as zeroizing domains and security settings We examine the software support for the cryptographic functions available on the System z10 server We look at the recent changes in the Integrated Cryptographic Service Facility ICSF introduced with level HCR7770 for the z OS operating system A discussion of PKCS 11 support presents an overview of the standard and provides details on configuration and exploitation of PKCS 11 services available on the z OS operating system The Trusted Key Entry TKE Version 6 0 workstation updates are examined in detail and examples are presented on the configuration usage and exploitation of the new features We discuss the cryptographic support available for Linux on System z with a focus on the services available through the IBM Common Cryptographic Architecture CCA API We also provide an overview on Elliptical Curve Cryptography ECC along with examples of exploiting ECC using ICSF PKCS 11 services Sample Rexx and Assembler code is provided that demonstrate the capabilities of CPACF protected keys   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 **Automatic Literature Processing** L. M. C. J. Sicking,B. V. de G. Walden,1968 **ABCs of IBM z/OS System Programming Volume 6** Karan Singh,Rui Feio,Oerjan Lundgren,Bob McCormack,Rita Pleus,Paul Rogers,IBM Redbooks,2014-08-12 The ABCs of IBM z OS System Programming is an 11 volume collection that provides an introduction to the z OS operating system and the hardware architecture Whether you are a beginner or an experienced system programmer the ABCs collection provides the information that you need to start your research into z OS and related subjects If you want to become more familiar with z OS in your current environment or if you are evaluating platforms to consolidate your e business applications the ABCs collection can serve as a powerful technical tool Following are the contents of the volumes Volume 1 Introduction to z OS and storage concepts TSO E ISPF JCL SDSF and z OS delivery and installation Volume 2 z OS implementation and daily maintenance defining subsystems JES2 and JES3 LPA LNKLST authorized libraries IBM Language Environment and SMP E Volume 3 Introduction to DFSMS data set basics storage management hardware and software VSAM System managed storage catalogs and DFSMStvs Volume 4 Communication Server TCP IP and IBM VTAM Volume 5 Base and IBM Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z OS system operations automatic restart management ARM and IBM Geographically Dispersed Parallel SysplexTM IBM GDPS Volume 6 Introduction to security IBM RACF digital certificates and public key infrastructure PKI Kerberos cryptography and IBM z9 integrated cryptography Lightweight Directory Access Protocol LDAP and Enterprise Identity Mapping EIM Volume 7 Printing in a z OS environment Infoprint Server and Infoprint Central Volume 8 An introduction to z OS problem diagnosis Volume 9 z OS UNIX System Services Volume 10 Introduction to IBM z Architecture IBM System z processor design System z connectivity logical partition LPAR concepts hardware configuration definition HCD and Hardware Management Console HMC Volume 11 Capacity planning performance management Workload Manager WLM IBM Resource Measurement FacilityTM RMFTM and System Management Facilities SMF *IAG-occasional Publications* International Federation for Information Processing,

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