



IBM BladeCenter HS22

IBM Redbooks Product Guide

The IBM BladeCenter HS22 is a two-socket blade server running Intel Xeon processors. It is ideal for mainstream business applications including as a virtualization engine, and is compatible with the IBM BladeCenter H, E, S, and HT chassis. The HS22 supports up to two Intel Xeon 5500 or 5600 series multi-core processors, 12 DIMMs modules, two hot-swap drives, two PCI Express connectors, and one internal USB connector for embedded virtualization.

The HS22 is shown in Figure 1.



Figure 1. IBM BladeCenter HS22

Did you know?

IBM BladeCenter HS22 delivered leadership two-processor, single-node result for SPECjEnterprise2010 — 2,752.06 Enterprise JavaServer Operations Per Second (SPECjEnterprise2010 EJOPS). This score was achieved using the IBM BladeCenter HS22 as the application server running IBM WebSphere Application Server V7 as the middle tier and the IBM System x3850 X5 as the database server running IBM DB2 9.7 Enterprise Server. With this SPECjEnterprise2010 result, IBM demonstrates its ability to provide both software and hardware for an optimal solution in the middle tier and in the back-end database layer, and also to deliver a robust solution for clients' complex workloads.

Ibm Bladecenter Manual

Irv Englander, Wilson Wong



Ibm BladeCenter Manual:

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 BladeCenter PS703 and PS704**

Technical Overview and Introduction David Watts,Kerry Anders,David Harlow,Joe Shipman II,IBM Redbooks,2013-01-03 The IBM BladeCenter PS703 and PS704 are premier blades for 64 bit applications They are designed to minimize complexity improve efficiency automate processes reduce energy consumption and scale easily These blade servers are based on the IBM POWER7TM processor and support AIX IBM i and Linux operating systems Their ability to coexist in the same chassis with other IBM BladeCenter blade servers enhances the ability to deliver the rapid return on investment demanded by clients and businesses This IBM RedpaperTM document is a comprehensive guide covering the IBM BladeCenter PS703 and PS704 servers The goal of this paper is to introduce the offerings and their prominent features and functions January 2013 update 16 GB DIMMs supported **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 z10™ 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 POWER7™ 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 EC12 Technical Guide Octavian Lascu, Ivan Dobos, Wolfgang Fries, Hua Bin Chu, Luiz Fadel, Martijn Raave, Fernando Nogal, Frank Packheiser, Vicente Ranieri, Ewerson Palacio, Andre Spahni, Chen Zhu, Parwez Hamid, IBM Redbooks, 2015-03-04. 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 various 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 addresses the new IBM zEnterprise System. This system consists of the IBM zEnterprise EC12, zEC12, an updated IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter Extension zBX Model 003. The zEC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers. It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75,000 millions of instructions per second (MIPS). The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196, z196 Model M80. The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management. It does so through an integrated hardware platform that spans mainframe IBM POWER7 and

IBM 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 book provides information about the zEnterprise System 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 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 *Building an Ensemble Using IBM zEnterprise Unified Resource Manager* Bill White,Elsie Ramos,Octavian Lascu,Mike Ebbers,Paola Bari,Gwen Dente,Wolfgang Fries,Marian Gasparovic,Brian Hatfield,Jeff McDonough,Iain Neville,Giancarlo Rodolfi,Thomas Schulze,Paul Sutera,Qi Ye,Richard Young,IBM Redbooks,2012-12-12 For the first time it is possible to deploy an integrated

hardware platform that brings mainframe and distributed technologies together a system that can start to replace individual islands of computing and that can work to reduce complexity improve security and bring applications closer to the data that they need With the zEnterprise System a new concept in IT infrastructures is being introduced zEnterprise ensembles A zEnterprise ensemble is a collection of highly virtualized diverse systems that can be managed as a single logical entity where diverse workloads can be deployed Ensembles together with the virtualization flexibility security and management capabilities provided by the zEnterprise System are key to solving the problems posed by today s IT infrastructure The zEnterprise System consists of three components IBM zEnterprise Central Processor Complex CPC The zEnterprise CPC can either be a zEnterprise 196 z196 or a zEnterprise 114 z114 Both zEnterprise CPCs offer z OS z VSE and z TPF operating systems as well as the ability to run many virtualized Linux servers under the z VM operating system IBM zEnterprise BladeCenter Extension zBX The zBX provides the capability to run the wide variety of applications typically found in UNIX and x86 architectures The zBX supports select POWER7 blades running AIX and System x blades running Linux on System x and Microsoft Windows IBM zEnterprise Unified Resource Manager Unified Resource Manager runs in the Hardware Management Console HMC It provides integrated management across all elements of the zEnterprise System This IBM Redbooks publication discusses how to plan and implement an ensemble using the zEnterprise Unified Resource Manager This book assumes a knowledge of IT systems networks and storage devices

IBM iFlow Director Technical Introduction
Sangam Racherla, David A Gray, Jose Rodriguez Ruibal, IBM Redbooks, 2012-05-23 IBM iFlow Director is a high performance low latency 10 Gb Ethernet switch integrated flow balancer with policy based traffic steering capability It delivers high availability scalability and lower total cost of ownership TCO for appliance vendors that offer IBM BladeCenter based solutions for applications such as Security Gateways Wireless Gateways Lawful Interception Network Surveillance Traffic Management Service Differentiation and so on The system throughput can be scaled by adding more blade servers and up to four switches that run iFlow Director iFlow Director is designed with a number of advanced features to deliver high availability in mission critical environments The solution is built around industry leading hardware to help eliminate any single point of failure iFlow Director uses BladeCenter innovations such as internal monitoring redundant mid plane redundant network connections per blade redundant power supplies and fans and switching features such as uplink failure detection and controlled failover with network interface card NIC teaming to deliver high availability iFlow Director provides up to 480 Gbps of nonblocking wire speed bidirectional throughput to BladeCenter to meet your network traffic load distribution needs With ten 10 Gbps uplink ports and 14 nonblocking 10 Gbps internal ports iFlow Director offers unmatched performance with latency as low as 1 60 microseconds The iFlow Director solution provides significant savings compared to a solution that consists of multiple stand alone appliances Layer 2 switches and load balancers With 480 Gbps of raw throughput the iFlow Director solution provides a price performance advantage This IBM Redpaper™ publication is

intended for network professionals who want to reduce the complexity associated with appliance sprawl by using a integrated solution that includes a high performance 10 Gb Ethernet embedded switch for BladeCenter and a stack of software that allows the control of the flow of traffic inside the chassis Storage and Network Convergence Using FCoE and iSCSI Sangam Racherla,Silvio Erdenberger,Harish Rajagopal,Kai Ruth,IBM Redbooks,2014-07-18 Along with servers and networking infrastructure networked storage is one of the fundamental components of a modern data center Because storage networking has evolved over the past two decades the industry has settled on the basic storage networking technologies These technologies are Fibre Channel FC storage area networks SANs Internet Small Computer System Interface iSCSI based Ethernet attachment and Ethernet based network attached storage NAS Today lossless low latency high speed FC SANs are viewed as the high performance option for networked storage iSCSI and NAS are viewed as lower cost lower performance technologies The advent of the 100 Gbps Ethernet and Data Center Bridging DCB standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology These characteristics include comparable speed low latency and lossless behavior Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks Fibre Channel over Ethernet FCoE is one approach to this convergence but 10 Gbps enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC This IBM Redbooks publication is written for experienced systems storage and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and existing networks This book provides an overview of today s options for storage networking convergence It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products IBM i 6.1 Technical Overview Jim Cook,Ahmed Mansour,Giancarlo Omati,Ana Flavia Pavan,Mark Roy,IBM Redbooks,2009-12-16 This IBM Redbooks publication introduces a technical overview of the main new features functions and enhancements available in IBM i 6 1 formerly called i5 OS V6R1 It gives a summary and brief explanation of new capabilities and what has changed in the operating system and also discusses many of the licensed programs and application development tools associated with IBM i Many other new and enhanced functions are described such as virtualization of storage security JavaTM performance improved performance with IBM System StorageTM devices backup and recovery including base IBM i Backup Recovery and Media Services BRMS The book introduces the PowerHATM product IBM Systems Director based system management and an easier Web enablement The information provided in this book will be useful for customers Business Partners and IBM service professionals involved with planning supporting upgrading and implementing IBM i 6 1 solutions **The Architecture of Computer Hardware, Systems Software, and Networking** Irv Englander,Wilson Wong,2021-04-06 The

Architecture of Computer Hardware Systems Software and Networking is designed help students majoring in information technology IT and information systems IS understand the structure and operation of computers and computer based devices Requiring only basic computer skills this accessible textbook introduces the basic principles of system architecture and explores current technological practices and trends using clear easy to understand language Throughout the text numerous relatable examples subject specific illustrations and in depth case studies reinforce key learning points and show students how important concepts are applied in the real world This fully updated sixth edition features a wealth of new and revised content that reflects today s technological landscape Organized into five parts the book first explains the role of the computer in information systems and provides an overview of its components Subsequent sections discuss the representation of data in the computer hardware architecture and operational concepts the basics of computer networking system software and operating systems and various interconnected systems and components Students are introduced to the material using ideas already familiar to them allowing them to gradually build upon what they have learned without being overwhelmed and develop a deeper knowledge of computer architecture

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 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 i2 Integrated Law Enforcement: Technical Architecture and Deployment Guide Wil Jamison,John Dowling,IBM Redbooks,2014-11-17 IBM i2 Integrated Law Enforcement is an IBM Smarter Cities solution that addresses the needs of modern day law enforcement agencies It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components As a framework IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new external systems In doing so an organization can respond and adapt to its changing needs Simply stated the configuration integration and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement This IBM Redpaper™ publication explains the technology and the architecture on which the solution is built Most importantly this paper enables technical teams to install configure and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1 0 1 This paper is targeted to solution architects system and deployment engineers security specialists data management experts system analysts software developers and

test engineers and system administrators Readers of this paper will benefit from the IBM Redguide™ publication Integrated Law Enforcement A Holistic Approach to Solving Crime REDP 5116

IBM zEnterprise System Technical Introduction Ivan Dobos,Huabin Chu,Luiz Fadel,Wolfgang Fries,Octavian Lascu,Fernando Nogal,Frank Packheiser,Ewerson Palacio,Martijn Raave,Vicente Ranieri Jr.,Andre Spahni,Chen Zhu,IBM Redbooks,2014-03-31 In a smarter planet information centric processes are exploding in growth The mainframe has always been the IT industry s leading platform for transaction processing consolidated and secure data serving and support for available enterprise wide applications IBM has extended the mainframe platform to help large enterprises reshape their client experiences through information centric computing and to deliver on key business initiatives IBM zEnterprise is recognized as the most reliable and trusted system and the most secure environment for core business operations The new zEnterprise System consists of the IBM zEnterprise EC12 zEC12 or IBM zEnterprise BC12 zBC12 the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise IBM BladeCenter Extension zBX Model 003 This IBM Redbooks publication describes the zEC12 and zBC12 with their improved scalability performance security resiliency availability and virtualization The zEnterprise System has no peer as a trusted platform that also provides the most efficient transaction processing and database management With efficiency at scale delivering significant cost savings on core processes resources can be freed up to focus on developing new services to drive growth This book provides a technical overview of the zEC12 zBC12 zBX Model 003 and Unified Resource Manager This publication is intended for IT managers architects consultants and anyone else who wants to understand the elements of the zEnterprise System For this introduction to the zEnterprise System readers are not expected to be familiar with current IBM System z technology and terminology

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 z13™ 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 Systems™ 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

InfoWorld ,2004-01-26 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

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 **2nd Iberian Grid**

Infrastructure Conference Proceedings, IBERGRID, Porto, Portugal, May 12-14, 2008 Fernando Silva,Gaspar Barreira,Lígia Ribeiro,2008 IBERGRID 2008 is the second edition of a series of Iberian Grid Infrastructure Conferences initiated in 2007 under the framework of the bilateral agreement for Science and Technology signed in November 2003 between Portugal and Spain aiming to leverage the construction of a common Iberian Grid Infrastructure and to foster cooperation in the fields of grid computing and supercomputing This book is the final outcome of IBERGRID 2008 The 2nd Iberian Grid Infrastructure Conference It is aimed at an audience of academics researchers students industry specialists and practitioners in all branches of knowledge sharing a common need that is powerful computing visualization and or storage resources This community will benefit from the Iberian Grid Infrastructure being implemented as it will provide easy and secure access to a larger and more powerful set of distributed resources CCNA Data Center DCICT 640-916 Official Cert Guide Navaid Shamsee,David Klebanov,Hesham Fayed,Ahmed Afrose,Ozden Karakok,2015-02-12 CCNA Data Center DCICT 640 916 Official Cert Guide CCNA Data Center DCICT 640 916 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self study resource approved by Cisco A team of leading Cisco data center experts shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete official study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Part ending exercises which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports Study plan suggestions and templates to help you organize and optimize your study time A final preparation chapter that guides you through tools and resources to help you craft your review and test taking strategies Well regarded for its level of detail study plans assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that ensure your exam success The official study guide helps you master topics on the CCNA Data Center DCICT 640 916 exam including Cisco data center concepts architectures devices layers modular design vPC FabricPath Cisco Nexus switches and more Data center unified fabric FCoE multihop VIFs FEX and setup Storage networking concepts targets verification connectivity zoning setup and configuration Data center virtualization servers devices and Nexus 1000V including setup and operations Cisco Unified Computing concepts discovery connectivity setup and UCSM Data center network services ACE load balancing virtual context HA management global local

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Ibm Bladecenter Manual Introduction

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