

IBM

# IBM Power Systems HMC Implementation and Usage Guide

Practical guide to using the HMC HMC in  
selected Power Systems environments

Describes the HMC 1 features  
on HMC HMC (HMC and CBT)

Updated to include HMC  
HMC and HMC POWER7



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# Ibm Hmc V7 Manual

**Scott Vetter, Sylvain Delabarre, Sorin  
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## **Ibm Hmc V7 Manual:**

**IBM PowerHA SystemMirror V7.2 for IBM AIX Updates** Dino Quintero, Sergio Baeta, Shawn Bodily, Bernhard Buehler, Primitivo Cervantes, Bing He, Mihai Huica, Howard Knight, IBM Redbooks, 2019-03-14 This IBM Redbooks publication addresses topics to help answer customers complex high availability requirements to help maximize systems availability and resources and provide documentation to transfer the how to skills to the worldwide sales and support teams This publication helps strengthen the position of the IBM PowerHA SystemMirror solution with a well defined and documented deployment models within an IBM Power Systems™ virtualized environment providing customers a planned foundation for business resilient infrastructure solutions This book describes documentation and other resources available to help the technical teams provide business resilience solutions and support with the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power Systems This publication targets technical professionals consultants technical support staff IT Architects and IT Specialists responsible for providing high availability solutions and support with IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power Systems [IBM PowerHA SystemMirror V7.2.3 for IBM AIX and V7.2.2 for Linux](#) Dino Quintero, Jose Martin Abeleira, Adriano Almeida, Bernhard Buehler, Primitivo Cervantes, Stuart Cunliffe, Jes Kiran, Byron Martinez Martinez, Antony Steel, Oscar Humberto Torres, Stefan Velica, IBM Redbooks, 2020-04-16 This IBM Redbooks publication helps strengthen the position of the IBM PowerHA SystemMirror for Linux solution with well defined and documented deployment models within an IBM Power Systems™ environment which provides customers a planned foundation for business resilience and disaster recovery DR for their IBM Power Systems infrastructure solutions This book addresses topics to help answer customers complex high availability HA and DR requirements for IBM AIX and Linux on IBM Power Systems servers to help maximize system availability and resources and provide technical documentation to transfer the how to skills to users and support teams This publication is targeted at technical professionals consultants technical support staff IT architects and IT specialists who are responsible for providing HA and DR solutions and support for IBM PowerHA SystemMirror for AIX and Linux Standard and Enterprise Editions on IBM Power Systems servers

**IBM Power Systems HMC Implementation and Usage Guide** Scott Vetter, Attha Surya Dharma, Mark Hais, Minsung Kang, Yuta Wakayama, IBM Redbooks, 2015-05-22 The IBM Hardware Management Console HMC provides systems administrators a tool for planning deploying and managing IBM Power Systems™ servers This IBM Redbooks publication is designed for system administrators to use as a desk side reference when managing partition capable IBM Power Systems servers by using the HMC The major functions that the HMC provides are Power Systems server hardware management and virtualization partition management You can find information about virtualization management in the following documents A Practical Guide for Resource Monitoring and Control RMC SG24 6615 IBM PowerVM Virtualization Introduction and Configuration SG24 7940 Implementing IBM Systems Director 6 1 SG24 7694 Hardware Management Console V7 Handbook

SG24 7491 IBM PowerVM Live Partition Mobility SG24 7460 IBM PowerVM Virtualization Managing and Monitoring SG24 7590 Converting Hardware Management Console HMC 7042 CR6 or 7042 CR7 Models to RAID1 REDP 4909 The following topics are described Plan to implement the HMC Configure the HMC Operate the HMC Manage software levels on the HMC Use service functions on the HMC Update firmware of managed systems Use IBM System Planning Tool deployments In addition there is an explanation on how to use the new HMC graphical user interface and the new HMC commands that are available with HMC Version 7 Release 7 modification 60

**IBM Db2 Analytics Accelerator V7 High Availability and Disaster Recovery** Ute Baumbach, Frank Neumann, IBM Redbooks, 2020-10-21 IBM Db2 Analytics Accelerator is a workload optimized appliance add on to IBM DB2 for IBM z OS that enables the integration of analytic insights into operational processes to drive business critical analytics and exceptional business value Together the Db2 Analytics Accelerator and DB2 for z OS form an integrated hybrid environment that can run transaction processing complex analytical and reporting workloads concurrently and efficiently With IBM DB2 Analytics Accelerator for z OS V7 the following flexible deployment options are introduced Accelerator on IBM Integrated Analytics System IIAS Deployment on pre configured hardware and software Accelerator on IBM Z Deployment within an IBM Secure Service Container LPAR For using the accelerator for business critical environments the need arose to integrate the accelerator into High Availability HA architectures and Disaster Recovery DR processes This IBM Redpaper™ publication focuses on different integration aspects of both deployment options of the IBM Db2 Analytics Accelerator into HA and DR environments It also shares best practices to provide wanted Recovery Time Objectives RTO and Recovery Point Objectives RPO HA systems often are a requirement in business critical environments and can be implemented by redundant independent components A failure of one of these components is detected automatically and their tasks are taken over by another component Depending on business requirements a system can be implemented in a way that users do not notice outages continuous availability or in a major disaster users notice an outage and systems resume services after a defined period potentially with loss of data from previous work IBM Z was strong for decades regarding HA and DR By design storage and operating systems are implemented in a way to support enhanced availability requirements IBM Parallel Sysplex and IBM Globally Dispersed Parallel Sysplex IBM GDPS offer a unique architecture to support various degrees of automated failover and availability concepts This IBM Redpaper publication shows how IBM Db2 Analytics Accelerator V7 can easily integrate into or complement existing IBM Z topologies for HA and DR If you are using IBM Db2 Analytics Accelerator V5 1 or lower see IBM Db2 Analytics Accelerator High Availability and Disaster Recovery REDP 5104

**Hardware Management Console V7 Handbook** Stephen Hochstetler, 2007

**IBM Power Systems HMC Implementation and Usage Guide** Scott Vetter, Sylvain Delabarre, Sorin Hanganu, Thomas Libor PhD, IBM Redbooks, 2017-08-10 The IBM Hardware Management Console HMC provides to systems administrators a tool for planning deploying and managing IBM Power Systems™ servers This IBM Redbooks publication is an extension of

IBM Power Systems HMC Implementation and Usage Guide SG24 7491 and also merges updated information from IBM Power Systems Hardware Management Console Version 8 Release 8.1.0 Enhancements SG24 8232 It explains the new features of IBM Power Systems Hardware Management Console Version V8.8.1.0 through V8.8.4.0 The major functions that the HMC provides are Power Systems server hardware management and virtualization partition management Further information about virtualization management is in the following publications IBM PowerVM Virtualization Managing and Monitoring SG24 7590 IBM PowerVM Virtualization Introduction and Configuration SG24 7940 IBM PowerVM Enhancements What is New in 2013 SG24 8198 IBM Power Systems SR IOV Technical Overview and Introduction REDP 5065 The following features of HMC V8.8.1.0 through HMC V8.8.4.0 are described in this book HMC V8.8.1.0 enhancements HMC V8.8.4.0 enhancements System and Partition Templates HMC and IBM PowerVM Simplification Enhancements Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.4.0 upgrade changes

**IBM Power Systems HMC Implementation and Usage Guide** Sylvain Delabarre, 2016

**IBM Power Systems Hardware Management Console: Version 8 Release 8.1.0 Enhancements** Scott Vetter, Steve Biggs, Guillermo Corti, Craig Hunt, Indra Suryatama, IBM Redbooks, 2014-10-23 The IBM Hardware Management Console HMC provides systems administrators a tool for planning deploying and managing IBM Power Systems™ servers This IBM Redbooks publication is an extension of IBM Power Systems HMC Implementation and Usage Guide SG24 7491 It explains the new features of IBM Power Systems Hardware Management Console Version V8.8.1.0 The major function that the HMC provides are Power Systems server hardware management and virtualization partition management You can find information about virtualization management in the following documents IBM PowerVM Virtualization Managing and Monitoring SG24 7590 IBM PowerVM Virtualization Introduction and Configuration SG24 7940 IBM PowerVM Enhancements What is New in 2013 SG24 8198 IBM Power Systems SR IOV Technical Overview and Introduction REDP 5065 The following new features of HMC V8.8.1.0 are described HMC V8.8.1.0 enhancements System and Partition Templates HMC and IBM PowerVM Simplification Enhancements Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.1.0 upgrade changes

**IBM PowerVC Version 2.0 Introduction and Configuration** Scott Vetter, Sachin P. Deshmukh, Thierry Huché, Stephen Lutz, Ahmed Mashhour, Christopher Emeffene Osiegbu, Borislav Ivanov Stoymirski, IBM Redbooks, 2021-05-26 IBM Power Virtualization Center IBM PowerVCTM is an advanced enterprise virtualization management offering for IBM Power Systems This IBM Redbooks publication introduces IBM PowerVC and helps you understand its functions planning installation and setup It also shows how IBM PowerVC can integrate with systems management tools such as Ansible or Terraform and that it also integrates well into a OpenShift container environment IBM PowerVC Version 2.0.0 supports both large and small deployments either by managing IBM PowerVM that is controlled by the Hardware Management Console HMC or by IBM PowerVM NovaLink With this capability IBM PowerVC can manage IBM AIX IBM i and Linux workloads that run on IBM

POWER hardware IBM PowerVC is available as a Standard Edition or as a Private Cloud Edition IBM PowerVC includes the following features and benefits Virtual image capture import export deployment and management Policy based virtual machine VM placement to improve server usage Snapshots and cloning of VMs or volumes for backup or testing purposes Support of advanced storage capabilities such as IBM SVC vdisk mirroring of IBM Global Mirror Management of real time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple to install and easy to use graphical user interface GUI Automated Simplified Remote Restart for improved availability of VMs ifor when a host is down Role based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM PowerVC Private Cloud Edition includes all of the IBM PowerVC Standard Edition features and enhancements A self service portal that allows the provisioning of new VMs without direct system administrator intervention There is an option for policy approvals for the requests that are received from the self service portal Pre built deploy templates that are set up by the cloud administrator that simplify the deployment of VMs by the cloud user Cloud management policies that simplify management of cloud deployments Metering data that can be used for chargeback This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power Systems Unless stated otherwise the content of this publication refers to IBM PowerVC Version 2 0 0

**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 z15™ 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 *IBM System* IBM.,1977 IBM PowerVM Best Practices Scott Vetter,Adriano de Almeida,Rafael Antonioli,Urban Biel,Sylvain Delabarre,Bartłomiej Grabowski,Kristian Milos,Fray L Rodríguez,IBM Redbooks,2015-01-19 This IBM Redbooks publication provides best practices for planning installing maintaining and monitoring the IBM PowerVM Enterprise Edition virtualization features on IBM POWER7 processor technology based servers PowerVM is a combination of hardware PowerVM Hypervisor and software which includes other virtualization features such as the Virtual I O Server This publication is intended for experienced IT specialists and IT architects who want to learn about PowerVM best practices and focuses on the following topics Planning and general best practices Installation migration and configuration Administration and maintenance Storage and networking Performance

monitoring Security PowerVM advanced features This publication is written by a group of seven PowerVM experts from different countries around the world These experts came together to bring their broad IT skills depth of knowledge and experiences from thousands of installations and configurations in different IBM client sites *IBM Power Systems S814 and S824 Technical Overview and Introduction* Scott Vetter,Alexandre Bicas Caldeira,Bartłomiej Grabowski,Volker Haug,Marc-Eric Kahle,Andrew Laidlaw,Cesar Diniz Maciel,Monica Sanchez,Seulgi Yoppy Sung,IBM Redbooks,2017-07-10 This IBM Redpaper™ publication is a comprehensive guide covering the IBM Power System S814 8286 41A and IBM Power System S824 8286 42A servers that support IBM AIX IBM i and Linux operating systems The objective of this paper is to introduce the major innovative Power S814 and Power S824 offerings and their relevant functions The new IBM POWER8™ processor available at frequencies of 3 02 GHz 3 52 GHz 3 72 GHz 3 89 GHz and 4 15 GHz Significantly strengthened cores and larger caches Two integrated memory controllers with improved latency and bandwidth Integrated I O subsystem and hot pluggable PCIe Gen3 I O slots Improved reliability serviceability and availability RAS functions IBM EnergyScale™ technology that provides features such as power trending power saving capping of power and thermal measurement This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products 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 S814 and Power S824 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 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 PowerVM Virtualization Introduction and Configuration* Scott Vetter,Mel Cordero,Lucio Correia,Hai Lin,Vamshikrishna Thatikonda,Rodrigo Xavier,IBM Redbooks,2017-06-09 This IBM Redbooks publication provides an introduction to PowerVMTM virtualization technologies on Power System servers PowerVM is a combination of hardware firmware and software that provides CPU network and disk virtualization These are the main virtualization technologies POWER7 POWER6 and POWER5 hardware POWER Hypervisor Virtual I O Server Though the PowerVM brand includes partitioning management software and other offerings this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions This publication is also designed to be an introduction guide for system administrators providing instructions for these tasks Configuration and creation of partitions and resources on the HMC Installation and configuration of the Virtual I O Server Creation and installation of virtualized partitions Examples using AIX IBM i and Linux This edition has been updated with the latest updates available and an improved content organization *IBM Power System E850C Technical Overview and Introduction* Scott Vetter,Alexandre Bicas Caldeira,Volker Haug,IBM Redbooks,2017-07-12 This IBM RedpaperTM publication is a comprehensive guide that covers the IBM Power SystemTM E850C 8408 44E server that supports IBM AIX and Linux operating systems The objective of this paper is to introduce the major innovative Power E850C offerings and their relevant functions The Power E850C server 8408 44E is the latest enhancement to the Power Systems portfolio It offers an improved 4 socket 4U system that delivers faster IBM POWER8 processors up to 4 22 GHz with up to 4 TB of DDR4 memory built in IBM PowerVM virtualization and capacity on demand It also integrates cloud management to help clients deploy scalable mission critical business applications in virtualized private cloud infrastructures Like its predecessor Power E850 server which was launched in 2015 the new Power E850C server uses 8 core 10 core or 12 core POWER8 processor modules However the Power E850C cores are 13% 20% faster and deliver a system with up to 32 cores at 4 22 GHz up to 40 cores at 3 95 GHz or up to 48 cores at 3 65 GHz and use DDR4 memory A minimum of two processor modules must be installed in each system with a minimum quantity of one processor module s cores activated Cloud computing in its many forms public private or hybrid is quickly becoming both the delivery and consumption models for IT However finding the correct mix between traditional IT private cloud and public cloud can be a challenge The new Power E850C server and IBM Cloud PowerVC manager can enable clients to accelerate the transformation of their IT infrastructure for cloud while providing tremendous flexibility during the transition IBM Cloud PowerVC Manager provides OpenStack based cloud management to



accelerate and simplify cloud deployment by providing fast and automated VM deployments prebuilt image templates and self service capabilities all with an intuitive interface PowerVC management upwardly integrates into various third party hybrid cloud orchestration products including IBM Cloud Orchestrator VMware vRealize and others Clients can simply manage both their private cloud VMs and their public cloud VMs from a single integrated management tool IBM Power Systems is designed to provide the highest levels of reliability availability flexibility and performance to bring you a world class enterprise private and hybrid cloud infrastructure Through enterprise class security efficient built in virtualization that drives industry leading workload density and dynamic resource allocation and management the server consistently delivers the highest levels of service across hundreds of virtual workloads on a single system The Power E850C server includes the cloud management software and services to assist with clients move to the cloud both private and hybrid Those additional capabilities include the following items Private cloud management with IBM Cloud PowerVC Manager Cloud based HMC Apps as a service and Open source cloud automation and configuration tooling for AIX Hybrid cloud support Hybrid infrastructure management tools Securely connect system of record workloads and data to cloud native applications IBM Cloud Starter Pack Flexible capacity on demand Power to Cloud Services This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products The intended audience includes the following roles Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors 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 E850C system

**IBM Power 710 and 730 (8231-E2B) Technical Overview and Introduction** Scott Vetter, An Ding Chen, James Cruickshank, Carlo Costantini, Volker Haug, Cesar Diniz Maciel, John T Schmidt, IBM Redbooks, 2012-03-21 This IBM Redpaper™ publication is a comprehensive guide covering the IBM Power 710 and Power 730 servers supporting AIX IBM i and Linux operating systems The goal of this paper is to introduce the major innovative Power 710 and 730 offerings and their prominent functions including these The POWER7™ processor available at frequencies of 3.0 GHz 3.55 GHz and 3.7 GHz The specialized POWER7 Level 3 cache that provides greater bandwidth capacity and reliability The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter included with each server configuration and providing native hardware virtualization PowerVM™ virtualization including PowerVM Live Partition Mobility and PowerVM Active Memory™ Sharing Active Memory Expansion that provides more usable memory than what is physically installed on the system EnergyScale™ technology that provides features such as power trending power saving capping of power and thermal measurement 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 Power 795 (9119-FHB) Technical Overview and Introduction** Scott Vetter, An Ding Chen, Carlo Costantini, James Cruickshank, Dave Freeman, Volker Haug, Breno Henrique Leitao, Cesar Diniz Maciel, John T Schmidt, IBM Redbooks, 2013-02-11 This IBM Redpaper™ publication is a comprehensive guide that covers the IBM Power 795 server that supports IBM AIX IBM i and Linux operating systems The goal of this paper is to introduce the innovative Power 795 offering and its major functions IBM POWER7 processor available at frequencies of 3.7 GHz and 4.0 GHz with TurboCore options of 4.25 GHz and 4.31 GHz Specialized POWER7 Level 3 cache that provides greater bandwidth capacity and reliability IBM PowerVM virtualization including PowerVM Live Partition Mobility and PowerVM IBM Active Memory™ Sharing TurboCore mode that delivers the highest performance per core Enhanced reliability accessibility and serviceability RAS features that are designed for maximum availability Active Memory Expansion that provides more usable memory than what is physically installed on the system IBM EnergyScale™ technology that provides features such as power trending power saving capping of power and thermal measurement Professionals who want to acquire a better understanding of IBM Power Systems™ products can benefit from reading this paper This paper complements the available set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power 795 system 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 Power Systems H922 and H924 Technical Overview and Introduction** Scott Vetter, Bartłomiej Grabowski, Mauro Minomizaki, Tamas David Domjan, IBM Redbooks, 2021-01-26 This IBM Redpaper™ publication is a comprehensive guide that covers the IBM Power System H922 9223 22S and IBM Power System H924 9223 42S servers that support memory intensive workloads such as SAP HANA and deliver superior price and performance for mission critical applications in IBM AIX IBM i and Linux operating systems The goal of this paper is to provide a hardware architecture analysis and highlight the changes new technologies and major features that are being introduced in these systems 2020 release such as the following examples Availability of new IBM POWER9™ processor configurations for the number of cores per socket More performance by using industry leading IBM Peripheral Component Interconnect Express PCIe Gen4 slots Enhanced internal disk configuration options with up to 14 NVMe adapters four U.2 NVMe plus up to 10 PCIe add-in cards Twice as fast back-end I/O enables seamless maximum speed and throughput between on-premises and multiple public cloud infrastructures with high availability HA This publication is for professionals who want to acquire a better understanding of IBM Power Systems products The intended audience includes the following roles Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors ISVs 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

H922 and Power H924 systems  
Lazcano, Martin Parrella, 2017

**IBM PowerVC Version 1.3.2 Introduction and Configuration** Javier Bazan

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