IBM PowerHA SystemMirror for AIX

Enterprise Edition

Version 7.2

Release Notes



IBM PowerHA SystemMirror for AIX

Enterprise Edition

Version 7.2

Release Notes



Note Before using this information and the product it supports, read the information in "Notices" on page 9.					

This edition applies to PowerHA SystemMirror Version 7.2 and to all subsequent release and modifications until otherwise indicated in new editions.

© Copyright IBM Corporation 2015. US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About this document	V	Trademarks	11
Highlighting	\mathbf{v}		
Case sensitivity in AIX	\mathbf{v}		
ISO 9000	v		
New functions for PowerHA			
SystemMirror Version 7.2	1		
PowerHA SystemMirror 7.2 Enterprise			
Edition replication technologies	3		
Software requirements	5		
Additional information	7		
	_		
Notices	9		
Privacy policy considerations	11		

© Copyright IBM Corp. 2015 iii

About this document

The Release Notes topics include late technical information that is not included in other topics, and they highlights new functions for the PowerHA® SystemMirror® Version 7.2 licensed program.

Highlighting

The following highlighting conventions are used in this document:

Bold Identifies commands, subroutines, keywords, files, structures, directories, and other items whose names are

predefined by the system. Bold highlighting also identifies graphical objects, such as buttons, labels, and

icons that the you select.

Italics Identifies parameters for actual names or values that you supply.

Monospace Identifies examples of specific data values, examples of text similar to what you might see displayed,

examples of portions of program code similar to what you might write as a programmer, messages from

the system, or text that you must type.

Case sensitivity in AIX

Everything in the AIX® operating system is case sensitive, which means that it distinguishes between uppercase and lowercase letters. For example, you can use the **ls** command to list files. If you type LS, the system responds that the command is not found. Likewise, **FILEA**, **FiLea**, and **filea** are three distinct file names, even if they reside in the same directory. To avoid causing undesirable actions to be performed, always ensure that you use the correct case.

ISO 9000

ISO 9000 registered quality systems were used in the development and manufacturing of this product.

New functions for PowerHA SystemMirror Version 7.2

PowerHA SystemMirror 7.2 Enterprise Edition has the following new functions:

EMC replication and disaster recovery improvements

SRDF mirroring through composite groups supports device group only configurations. You can use the manual resync options to manage EMC mirrors and to make decisions about resync based on the recovery scenario. For more information about EMC replication, see the Adding an SRDF replicated resource topic.

GLVM Configuration Assistant

You can use the GLVM Configuration Assistant to automatically create and configure eligible volume groups for Geographical Logical Volume Manager (GLVM) mirroring. For more information about the GLVM Configuration Assistant, see the GLVM Configuration Assistant topic.

PowerHA SystemMirror 7.2 Enterprise Edition replication technologies

PowerHA SystemMirror 7.2 Enterprise Edition supports the following software and hardware replication technologies:

- Geographic Logical Volume Manager (GLVM)
- DS8000[®] PPRC (Metro Mirror and Global Mirror)
- SVC
- EMC SRDF
- Hitachi Truecopy/HUR
- XIV® Remote Mirror
- HyperSwap®

Software requirements

IBM® recommends that you install all available service packs for AIX, PowerHA SystemMirror, Reliable Scalable Cluster Technology (RSCT) from the IBM Fix Central website.

PowerHA SystemMirror Version 7.2 is supported on the following version of the AIX operating system:

- IBM AIX 6 with Technology Level 9 with Service Pack 5, or later ¹
- IBM AIX 7 with Technology Level 3 with Service Pack 5, or later ¹
- IBM AIX 7 with Technology Level 4 with Service Pack 1, or later ²
- IBM AIX Version 7.2 with Service Pack 1, or later

Note:

¹ The Automatic Repository Disk Replacement (ARR) capability, the AIX Live Update function, and the Logical Volume Manager (LVM) options that are used to enable rootvg monitoring, are not available in this version of the AIX operating system.

² The AIX Live Update function is not available in this version of the AIX operating system.

Additional information

Documentation

To view the latest updates to the documentation, see the What's new in PowerHA SystemMirror topic.

To order PowerHA SystemMirror Version 7.2 Knowledge Center on physical media, you can place an order for feature 2322 on product ID 5692-A6P on the Entitled Software Service website or in the eConfig tool.

To view the latest version of the release notes, see the PowerHA SystemMirror Version 7.2 release notes topic.

To view the documentation in PDF files, see the PowerHA SystemMirror PDFs topic.

Man pages

The man pages for the PowerHA SystemMirror 7.2 commands are provided in the cluster.man.en_US.es.data fileset. The fileset is installed in the /usr/share/man/cat1 directory. To view the man pages, from the command line, enter man *command_name* (where *command_name* is the name of the command).

You can use the **clmgr** command to perform most of the PowerHA SystemMirror operations. For more information about the operations that you can perform with the **clmgr** command, see the clmgr command: Quick reference topic.

Notices

This information was developed for products and services that are offered in the USA.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 United States of America

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing Legal and Intellectual Property Law IBM Japan Ltd. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation Dept. LRAS/Bldg. 903 11501 Burnet Road Austin, TX 78758-3400 **USA**

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

Portions of this code are derived from IBM Corp. Sample Programs.

© Copyright IBM Corp. _enter the year or years_. All rights reserved.

Privacy policy considerations

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.

This Software Offering does not use cookies or other technologies to collect personally identifiable information.

If the configurations deployed for this Software Offering provide you as the customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy/details the section entitled "Cookies, Web Beacons and Other Technologies" and the "IBM Software Products and Software-as-a-Service Privacy Statement" at http://www.ibm.com/software/info/product-privacy.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at Copyright and trademark information at www.ibm.com/legal/copytrade.shtml.

IBM.

Printed in USA