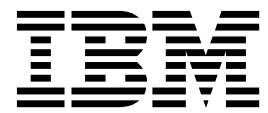


IBM PowerHA SystemMirror for AIX

Standard Edition

Version 7.2.1

*Release Notes*



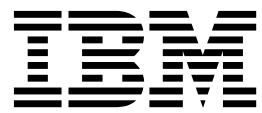


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**Note**

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

**First edition (October 2016)**

This edition applies to PowerHA SystemMirror Version 7.2.1 and to all subsequent release and modifications until otherwise indicated in new editions.

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## 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 7.2.1 licensed program.

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## Highlighting

The following highlighting conventions are used in this document:

<b>Bold</b>	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.
<i>Italics</i>	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.

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## 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.

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## ISO 9000

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





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## New functions for PowerHA SystemMirror Version 7.2.1

PowerHA SystemMirror Version 7.2.1 has the following new functions and updates:

### **PowerHA SystemMirror graphical user interface (GUI)**

The PowerHA SystemMirror GUI provides the following advantages over the PowerHA SystemMirror command line:

- Monitor the status for all clusters, sites, nodes, and resource groups in your environment.
- Scan event summaries and read a detailed description for each event. If the event occurred because of an error or issue in your environment, you can read suggested solutions to fix the problem.
- Search and compare log files. Also, the format of the log file is easy to read and identify important information.
- View properties for a cluster such as the PowerHA SystemMirror version, name of sites and nodes, and repository disk information.

For more information about the PowerHA SystemMirror GUI, see the PowerHA SystemMirror graphical user interface (GUI) topic.

### **Split and merge policy updates**

PowerHA SystemMirror Version 7.2.1 supports various split and merge policies across all standard, stretched, and linked clusters. For more information, see the Configuring split and merge policies topic.

### **Resource Optimized High Availability (ROHA)**

ROHA was updated to support Hardware Management Console (HMC) Version 8 Release 8.5.0, or later. However, because the command line functions are not the same for different versions of the HMC, you must be using the same version of the HMC for all HMCs that are registered for ROHA management. For more information about ROHA, see the Resource Optimized High Availability (ROHA) in PowerHA SystemMirror topic.



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## Software requirements

Before you install PowerHA SystemMirror Version 7.2.1, you should install all available service packs for AIX and PowerHA SystemMirror from the IBM<sup>®</sup> Fix Central website.

PowerHA SystemMirror Version 7.2.1 is supported on the following version of the AIX operating system:

- IBM AIX 7 with Technology Level 3 with Service Pack 7, or later <sup>1</sup>
- IBM AIX 7 with Technology Level 4 with Service Pack 2, or later <sup>2</sup>
- IBM AIX Version 7.2 with Service Pack 2, or later
- IBM AIX 7.2 with Technology Level 1 with Service Pack 1, or later

**Note:**

<sup>1</sup> 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.

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



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## Installation and migration

You cannot migrate from PowerHA SystemMirror Version 6.1 to PowerHA SystemMirror Version 7.2.1. You must first migrate from PowerHA SystemMirror Version 6.1 to PowerHA SystemMirror Version 7.2. For more information about migrating, see the [Migrating from PowerHA SystemMirror 6.1 to PowerHA SystemMirror 7.1, or later](#) topic.

For more information about updating PowerHA SystemMirror Version 7.2.1 with a snapshot, see the [Upgrading PowerHA SystemMirror using a snapshot](#) topic.

For more information about updating an offline cluster, see the [Upgrading an offline cluster for PowerHA SystemMirror](#) topic.

For more information about rolling migration, see the [Performing a rolling migration](#) topic.



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## Additional information

### Default settings

PowerHA SystemMirror Version 7.2.1 added many AIX specific checks to daily verification. In previous versions of PowerHA SystemMirror, these daily verification checks were not enabled by default. However, in PowerHA SystemMirror Version 7.2.1, these verification checks are enabled by default. To view the **Detailed Checks** field in the SMIT interface, select **Custom Cluster Configuration > Verify and Synchronize Cluster Configuration (Advanced)**, and press Enter.

In PowerHA SystemMirror Version 7.2.0, ROHA supported the **Start Resource Groups even if resources are insufficient** field in SMIT that determines whether resources are started when the total requested resource exceeds the maximum value for the LPAR profile or the combined available resources value. The default value for the **Start Resource Groups even if resources are insufficient** field is **No**. However, in PowerHA SystemMirror Version 7.2.1 the **Start Resource Groups even if resources are insufficient** field was replaced with the **Always start resource groups** field. The **Always start resource groups** field still functions the same as the **Start Resource Groups even if resources are insufficient** field, but the default value changed to **Yes**. To view the **Always start resource groups** field in the SMIT interface, select **Cluster Applications and Resources > Resources > Configure User Applications (Scripts and Monitors) > Resource Optimized High Availability > Change/Show Default Cluster Tunables**, and press Enter. For more information about the **Always start resource groups** field, see the Changing the default cluster tunables topic.

### PowerHA SystemMirror graphical user interface (GUI)

After you install the filesets that are available on the PowerHA SystemMirror Version 7.2.1 media, you must run the **smuiinst.ksh** command to complete the installation process. The **smuiinst.ksh** command automatically downloads and installs the remaining files that are required to complete the PowerHA SystemMirror GUI installation process. These downloaded files are not shipped in the filesets because the files are licensed under the General Public License (GPL).

### Documentation

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

If you want to view the documentation without an internet connection, you can install the PowerHA SystemMirror Version 7.2.1 IBM Knowledge Center on a computer that is running Windows 7, Windows 8, or Windows 10. You can download the PowerHA SystemMirror Version 7.2.1 IBM Knowledge Center installation files from the Entitled Software Service website.

To view the latest version of the release notes, see the PowerHA SystemMirror Version 7.2.1 release notes topic.

To view the documentation in PDF files, see the PowerHA SystemMirror Version 7.2.1 PDFs topic.

### Man pages

The man pages for the PowerHA SystemMirror 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 by using the **clmgr** command, see the **clmgr**

command: Quick reference topic.



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