IBM PowerHA SystemMirror V7.2 for AIX

High availability designed for Power Systems

Highlights

- IBM PowerHA SystemMirror is the Power Systems strategic high availability solution for business-critical workloads within hybrid cloud environments
- The UI enables the monitoring and management of all your clusters from a single screen
- Optimized for cloud with GLVM-host-based replication
- Log analytics for diagnostics provides reports and recommendations

PowerHA has provided an HA management platform for Power Systems for more than two decades. With each release, PowerHA becomes more powerful, more robust, and easier to use. PowerHA is focused on providing superior economic value, greater automation, and more advanced, robust clustering technology. PowerHA V7 provides smart assists for easier, out-of-the-box high availability setup and application management for many well-know middleware products such as Db2, SAP, NetWeaver and Oracle. The smart assists are high-availability agents for application deployment and management. Smart assists are used to define high-availability policies by discovering software that is deployed within the cluster. Discovery-based information helps define the high availability policy and provides periodic health monitoring, enabling middleware and resource dependencies to be restarted via the specified policy.

The PowerHA Enterprise Edition enables clients to readily extend their traditional data center cluster to incorporate a remote location for disaster recovery. The V7 cluster makes disaster recovery testing relatively simple while putting the operator in charge of managing failover policy and procedures.

Geographically dispersed configurations can be deployed via a stretched cluster configuration defined as having a single cluster repository or via a linked cluster configuration with two independent yet linked cluster repositories. A stretch cluster can also be deployed with the Standard Edition and logical volume manager (LVM) mirroring in a cross-site mirror configuration. The Enterprise Edition with the Geographic Logical Volume Manager (GLVM) component provides host-based synchronous and asynchronous data replication and failover to or in a public cloud. You can economically deploy your disaster recovery solution with the GLVM configuration wizard.

Select PowerHA SystemMirror Enhancements and Capabilities

PowerHA SystemMirror V7.2 is all about automation, data integrity and security:

- UI/dashboard enables IT operators to monitor and manage a cluster or a group of clusters from one interface
- Security management provided via user role policies and audit logs
- Multi-tenant/management in cloud environments via cluster zones and access authority
- Automated log analytics produces reports and provides recommended actions
- Easy update command to push cluster wide updates as well as rollbacks
- Integrated and automated support for Power Enterprise Pools and Elastic Capacity on Demand
- Automated support for live partition mobility and AIX live update operations
- Fencing disks or disk groups preventing accidental access
- Resource group policy definition enables relationship management between multiple resource groups
- Resource relationship management such as "start after" and "stop after" dependencies are supported
- Cluster-wide AIX and PowerHA verification checking
- Quarantine processing for the isolation of a sick or intermittent node before a failover operation
- Integration of cluster-aware AIX and PowerHA SystemMirror V7 to provide kernel-based monitoring and event management, meaning minimal administration and immediate cluster-wide communications
- Centralized cluster storage repository for inter-node synchronization minimizes the administration responsibility associated with monitoring and maintaining individual nodes for configuration consistency
- PowerHA SystemMirror smart assists enable faster installation and application management by automating setup with resource dependency discovery and management
- AIX LVM split-site mirroring for continuous availability against storage failures

Complementary Cluster Software

IBM also offers a broad range of additional tools to aid in efficiently building, managing and expanding high-availability clusters in AIX environments. These include:

- PowerVM enables you to move running workloads via live partition mobility between servers to maximize availability by avoiding planned downtime and to dynamically adjust server capability to meet changing workload demands
- VM Recovery Manager provides easy to use, simple, low-cost disaster recovery
- General parallel file system (GPFS)
- Tivoli Storage Manage provides enterprise management of backup and recovery to tape or disk
- GLVM provides AIX host-based mirroring over IP networks
- Workload Manager for AIX provides resource planning balancing between applications

Gaining the IBM Advantage

Varsity Logistics and IBM have a strong alliance and a partnership focused on our joint customers. This ensures our combined hardware and software solutions are ideal for companies shipping from 500 parcels to well over 5,000 parcels a day or with multiple freight shipments.

Varsity Logistics software is built from the ground up for the IBM i platform using IBM's native toolset and database. It was the first shipping software native to the IBM i platform and continues to evolve as the leader in serving IBM i users with parcel, freight and/or fleet shipping requirements.

For More Information

To learn more about PowerHA SystemMirror solutions, contact your IBM marketing representative or IBM Business Partner or visit: https://www.ibm.com/products/powerha

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