

Chapter 1 : Administration Guide

This edition of HACMP Enhanced Scalability Handbook applies to the High Availability Cluster Multi-Processing for AIX Version for use with the IBM Parallel System Support Programs for AIX Version and the AIX Version

HACMP is designed to detect system failures and manage failover to a recovery node, providing continuous application availability. Customers requiring high availability for their critical applications. Usability System administration Additional hardware support HACMP is designed to detect system failures and manage failover to a recovery node, providing continuous application availability. ES provides cluster status and monitoring facilities for the programmer and system administrator, and allows customers to define their own HACMP events and monitor their applications. Concurrent access is provided at the raw disk level. High Availability Subsystem HAS Provides base services for cluster membership, system management, configuration integrity and control, failover, and recovery for up to eight servers or nodes. Simple cluster status and monitoring facilities are included. All newly added resource groups are processed in parallel, unless you specify a serial order. Stream-lined Configuration through Automated Network Discovery This function lets you add and delete multiple IP-based adapters for each network in one operation after running a cluster-wide discovery process. Using this option, you can define all adapters of a given type ether, fddi , attribute, and function in one operation. Persistent Node IP Address You can now assign a persistent IP label to an adapter on a node, allowing you to have a node-bound address on a cluster network that you can use for administrative purposes to access a specific node in the cluster. This is useful for applications like Tivoli , which require that an IP address be mapped to a specific node. Expanded WAN support Prior to 4. Fibre Channel Tape support You can configure a Fibre Channel as well as SCSI tape drive as a cluster resource, making it highly available to multiple nodes in a cluster. Enriched Custom Pager Notification support When configuring a custom pager notification method, you can now send a test message to make sure the configuration is correct. HACMP will also recover any groups that are offline when a failed resource rejoins the cluster. New Application Availability Analysis Tool This new tool measures the exact amount of time that any of your applications is available. Defining IP aliases to adapters allows creation of more than one IP label on the same network interface. You only need to configure multiple boot addresses for adapters for your networks, since the concept of a standby adapter is not used in this configuration. Cluster Event History at a glance Event summaries can now be compiled from previous, current, and redirected log files, and even from resource groups that have migrated to another node. The event summaries can also be saved to a user-specified file. User-specified Time before Warning You can customize the time period allowed for a cluster event to complete before HACMP issues a system warning for it. You customize this time using the SMIT interface. In versions prior to 4. Accessibility by People with Disabilities The following features support use by people with disabilities: One method of delivering high-availability services is the use of redundant disks. In addition to disk failures, HACMP protects against network, adapter, system, and user-defined failures. Another method of achieving higher availability, fault-tolerant solutions is to use redundant, specialized hardware to provide the protection against system and application failures. While fault-tolerant solutions do not require system restart, they often do require changes to applications for full, fault tolerance support. HACMP is a robust offering for mission-critical availability. Windows is a registered trademark of Microsoft Corporation. Java is a trademark of Sun Microsystems, Inc. Other company, product, and service names may be trademarks or service marks of others. HACMP configurations can include mutual takeover or standby takeover recovery processes. Mutual takeover configurations allow all servers to be active information processors and perform as a backup server for a failed server. A standby configuration designates a server to be an idle or passive backup for a failed server in the cluster. HACMP can be tailored to specify which server in the cluster will take over the application of the failed server, and to specify which application has priority on the takeover server. HACMP recovery processes also allow specifying which server the application should be assigned to, or be reassigned to, after recovery, resynchronization, and reintegration of the failed server into the cluster is completed. The IP Aliasing feature allows more than one service label to be hosted by a single physical

adapter. This provides even greater flexibility for maintaining availability. Workload distribution With an HACMP mutual takeover configuration, applications and their workloads are assigned to specific servers. For example, in a two-node HACMP cluster, one server is designated to be the application server and the second server is designated to be a database server. Segmenting the application processing to one server and the database processing to the second server utilizes both servers in a productive manner, and maximizes application throughput and investments in hardware and software. Scalable growth HACMP software is scalable to address a broad range of business-critical, high-availability application needs. HACMP offers built-in growth and helps protect investments in cluster hardware, software, services, and training. System management HACMP provides a rich set of leadership system management tools to reduce cluster configuration and administration time. The cluster configuration can be expanded or modified without service disruption through Dynamic Reconfiguration options. With CRM and OPS, all servers in the cluster share the data and system resources; if one or more servers should fail, the remaining servers continue processing with minimal disruption, if any, since no fail over is required. An added benefit of CRM and OPS is a performance improvement, since all database processing is done in a parallel manner. Supported disk subsystems include: Extensive networking support Extensive configuration flexibility supports a variety of networks, including:

Chapter 2 : hacmp enhanced scalability handbook Manual

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IBM High Availability Cluster Multi-Processing for AIX (HACMP) is designed He is a co-author of the HACMP Enhanced Scalability Handbook.

Chapter 6 : IBM HACMP V Makes Mission-Critical High-Availability Processing More Powerful and Useable

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Chapter 7 : IBM HACMP VERSION ENHANCES HIGH-AVAILABILITY PROCESSING FOR MISSION-CRITICAL

P for use with the aix operating system and is based on information available in october hacmp for aix installation guide preface v about this guide xiii part 1.

Chapter 8 : Bookshelf v Installing Siebel eBusiness Applications with IBM HACMP

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Chapter 9 : HACMP System Administration III: Problem Determination and Recovery

Description HACMP builds on IBM's position as a leader in high-availability clustering technology with new and improved functionality for usability, installability, system.