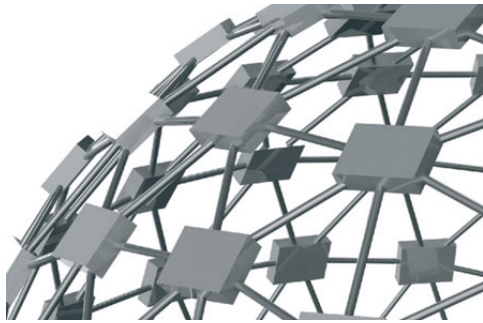

Scalable Grid Architecture



IBM XIV® Storage System is a groundbreaking, high-end, open disk system designed to support business requirements for a highly available information infrastructure. The XIV architecture is a grid of standard Intel®/Linux® components connected in any-to-any topology by means of massively paralleled, non-blocking Gigabit Ethernet, providing outstanding enterprise-class reliability, performance, and scalability. IBM XIV is a core component of the IBM Information Infrastructure, which helps clients address needs for availability, security, compliance, and information retention.

High-End System

Exceptional Reliability

- **Active-active redundancy.** The XIV platform provides unprecedented data protection and availability, with full, active-active with N+1 redundancy of all disk drives, modules, switches, and UPS units, as well as concurrent multi-path host connectivity.
- **Near-instant self-healing.** IBM XIV takes self-healing to a new level, with a revolutionary rebuild process that returns the system to full redundancy in just minutes.
- **Built-in reliability.** The XIV architecture provides built-in system reliability at hardware and software levels, including UPS protection for all disk, cache, and electronics, redundant power supply and fans, partition mirroring, and proactive error detection and healing.

Superior Performance

- **Massive parallelism.** IBM XIV delivers and sustains excellent performance by collectively orchestrating its massively paralleled architecture, all components (including cache, processors, disks, switches), and unique caching technology.
- **No hotspots.** IBM XIV balances the entire load of data across all system components at all times, preventing hotspots from occurring—even on disks.

Flexible Scalability

- IBM XIV provides cache, processors, disks, and connectivity in every module, augmenting all resources with every capacity increase. Its automated data distribution and self-tuning ensure hands-free performance scaling.

All-inclusive Features

- **Differential snapshots.** IBM XIV replicates differentially, and provides near-unlimited snapshots with no performance hit. Snapshots are created, copied, and restored in mere clicks, and immediately available.
- **Remote mirroring.** IBM XIV ensures business continuity through differential mirroring and flexible restore options for rapid recovery.
- **Security.** IBM XIV controls user access through LDAP authentication, role-based management, and centralized challenge response.
- **And all the rest.** Every XIV system ships with all software, regardless of capacity, including: thin provisioning, storage management, data migration, and host packages for setup and multi-path support.



Exceptional Total Cost of Ownership (TCO)

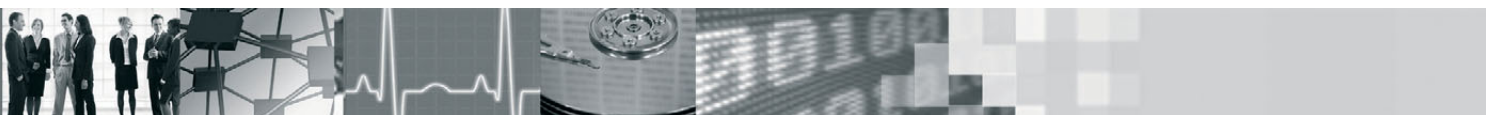
IBM XIV offers dramatic savings through ease of management, virtualization, and efficiencies in capacity, power, and space usage:

- **Ease of Management.** IBM XIV is easily managed and monitored through an intuitive graphical user interface (GUI) and requires minimal training and skill. Its single-tier platform allows the simple management of different application needs in a unified environment.
- **Automated Data Distribution.** IBM XIV is a fully virtualized, self-managed system that provisions and balances load perfectly at all times, minimizing management overhead and human error, while staying optimally tuned through changes in capacity, configuration, and application behavior without requiring special software.
- **Optimal Capacity Use.** IBM XIV uses less disk space for the same storage needs by applying efficient capacity use system-wide: optimized data allocation on every disk and module, and across modules, differential snapshots, and use of thin provisioning—logical volumes that exceed the allocated physical capacity and ongoing space reclamation—to defer capacity purchases.
- **Power, Cooling, and Space Savings.** IBM XIV's use of very high density drives, together with optimal capacity use, leads to dramatic per terabyte efficiencies in power, cooling, and maintenance, and reduced need for physical space.

- **Built for Change.** Built of standard components, IBM XIV rapidly adopts new and improved hardware technologies without requiring lengthy certification processes. It enables non-disruptive hardware and firmware upgrades, with minimal performance hit, and automated scaling, allowing transparent, on-demand capacity growth.



IBM XIV's intuitive GUI simplifies management





Storage Reinvented

For more information

To learn more about IBM XIV Storage System, contact your IBM representative or IBM Business Partner, or visit:

www.xivstorage.com OR:

<http://www-03.ibm.com/systems/storage/news/center/xiv/index.html>



IBM XIV: Single-tier storage based on a scalable grid architecture

© Copyright IBM Corporation 2009

IBM Systems and Technology Group

Route 100

Somers, NY 10589

U.S.A.

Produced in the United States of America

July 2009

All Rights Reserved

IBM, the IBM logo, ibm.com and XIV are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. These and other IBM trademarked terms are marked on their first occurrence in this information with the appropriate symbol (® or ™), indicating US registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at ibm.com/legal/copytrade.shtml

Intel is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

This document could include technical inaccuracies or typographical errors. IBM may not offer the products, services or features discussed in this document in other countries, and the product information may be subject to change without notice. Consult your local IBM business contact for information on the product or services available in your area. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. The information contained in this document is current as of the initial date of publication only and is subject to change without notice. All performance information was determined in a controlled environment. Actual results may vary. Performance information is provided "AS IS" and no warranties or guarantees are expressed or implied by IBM. Information concerning non-IBM products was obtained from the suppliers of their products, their published announcements or other publicly available sources. Questions on the capabilities of the non-IBM products should be addressed with the suppliers. IBM does not warrant that the information offered herein will meet your requirements or those of your distributors or customers. IBM provides this information "AS IS" without warranty. IBM disclaims all warranties, express or implied, including the implied warranties of noninfringement, merchantability and fitness for a particular purpose or noninfringement. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.



Recyclable, please recycle.

TSD03057-USEN-04

