


GRIDSCALE® FOR DB2

Virtualize Your Database Environment



The Impact of Database Downtime

Businesses today continue to grapple with an age-old problem: how to deliver nonstop access to business-critical data. Application downtime can have a significant impact on your business – material revenue loss, lower employee productivity, regulatory fines and worse, damage to your corporate brand.

Most organizations use costly, isolated or clustered SMP boxes to provide some measure of availability. Unfortunately these “high availability” (HA) technologies were designed for fail-over, not 24x7 availability. They do not allow IT to perform maintenance on their databases without downtime. As a result, IT organizations are forced to maintain expensive active-passive systems and resort to planned downtime to keep databases up-to-date.

GRIDSCALE Database Virtualization

GRIDSCALE from xkoto provides powerful database virtualization software that manages multiple, active-active database copies running anywhere on the network.

GRIDSCALE uses breakthrough, patent-pending technology to enable DB2 databases to run in a cluster of commodity systems with the same or better reliability and performance as much more expensive proprietary systems. With GRIDSCALE, you can avoid the complexity associated with passive fail-over systems, database partitioning, and disaster recovery.

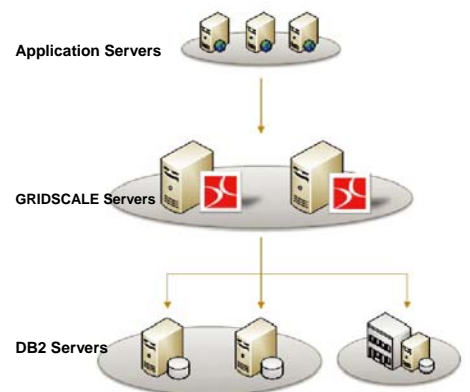
With GRIDSCALE You Can:

- >> Deliver continuous availability 24x7 for DB2 applications
- >> Dramatically improve application performance and scalability across commodity systems and virtual machines
- >> Eliminate the complexity associated with active-passive databases, fail-over systems and data replication
- >> Provision databases as you need them, anywhere on the network

How GRIDSCALE Works

Unlike traditional clustering which relies on multiple databases tied to a shared disk, GRIDSCALE runs between your applications and databases. It load balances read requests for scalability and performance. Write requests and database changes are simulcast to all databases to keep them in sync. The databases themselves operate completely independently from one another without the need for shared storage. Applications typically require little to no modification beyond the use of a special ODBC, JDBC, DB2 CLI driver.

The result? Horizontal scalability, continuous availability and disaster recovery for DB2 – all in one solution.





GRIDSCALE Features & Benefits

Continuous Availability

By sharing the load across multiple servers, the loss of any one server does not have an impact on the availability of the service. In addition, since servers can be taken offline without impact, you can perform rolling upgrades on the DB2 servers for true continuous availability.

Horizontal Scalability

With GRIDSCALE, you can dramatically improve performance by distributing application load horizontally across multiple instances of DB2. Performance tests show that with each new database server added to the cluster, application performance can increase up to 85%. As a result, instead of architecting and expensing a fully loaded database solution to handle peak demand from the outset, GRIDSCALE allows you to control when to add capacity, depending on your changing business needs.

Data Integrity

Central to GRIDSCALE is its innovative, patent-pending algorithm used to ensure that all returned data is consistent. GRIDSCALE supports both synchronous and asynchronous data replication. Standard “asynchronous-only” transaction replication solutions cannot load balance requests across all nodes since they cannot guarantee data consistency across the servers.

Application Transparency

Traditional approaches to database clustering require significant changes to the applications or the underlying databases. GRIDSCALE on the other hand provides ODBC, JDBC, and DB2 CLI compliant drivers, to reduce the need to change code or to the underlying database definition. xkoto also provides an Assessment Service that can be used to quickly identify any additional configuration information required to handle special cases.

Support for Multiple Data Centers

GRIDSCALE eliminates the need for expensive and intensive data replication strategies between production and disaster recovery (DR) sites. With GRIDSCALE you can solve both HA and DR issues with a single solution. Using a highly efficient communication protocol, GRIDSCALE allows database servers to span multiple, geographically dispersed data centers. As a result, you can load balance across multiple data centers, tap into idle capacity at DR sites and ensure that your DR database is always up-to-date.

Easy-to-Use, Comprehensive Management

GRIDSCALE’s Web-based console and command-line interface provide straightforward management and administration of GRIDSCALE and database servers. Diagnostic and fault event notification for GRIDSCALE and the underlying managed environment can be forwarded to an enterprise management system for processing.



Technical Support from IBM

GRIDSCALE for DB2 is officially supported by IBM. As a business running GRIDSCALE with DB2, you’ll have one-stop, 24x7 support from IBM and the convenience and confidence of having a single-point of contact for support issues.



More Information

To find out more about GRIDSCALE and why more businesses are using database virtualization technology to eliminate downtime and improve performance of business-critical applications, visit <http://www.xkoto.com> or contact us at 1.416.440.7001



Your qualified Gridscale Distributor in Europe

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