

IBM DB2 pureScale

A smarter IT infrastructure is the backbone of a smarter business.

In today's business environment, agility is everything. Information technology must adapt to change in hours, not months.

Organizations that run online transaction processing (OLTP) applications on distributed systems need high availability and exceptional scalability transparent to applications.

And they need the ability to add capacity without adding risk.

To successfully manage the demands of our globalized world, a new IBM DB2 feature — IBM DB2 pureScale— helps reduce the risk and cost of business growth.

DB2 pureScale technology is based on the IBM System z architecture that businesses worldwide trust for their most critical systems.

With DB2 pureScale technology, multiple database servers in a system share a common set of disks, and offer:

- Unlimited capacity ... so you buy only what you need and add capacity as your needs grow.
- Application transparency ... which helps you avoid the risk and cost of application changes.
- Continuous availability ... which provides uninterrupted access to your data with consistent performance.

Let's take a closer look...

With DB2 pureScale technology, you can grow and shrink your cluster on demand, as your business needs grow or subside.

No application changes are required, and there is no interruption to your business. Because you license the machines you want only for the time you need, you can avoid the costs of over provisioning.

You can instantly add capacity — transparently to your application — with no complex rewrites, and no additional tuning to your database infrastructure.

This flexibility means quick deployment and low stress for all of IT.

Your developers don't even need to know more nodes are being added!

Along with flexibility, DB2 pureScale offers breakthrough efficiency.

To demonstrate this, IBM scaled DB2 pureScale technology out to 128 members on IBM Power systems.

Results show near linear scaling out to 128 members in the cluster:

...at 64 nodes, 95 percent scalability—or efficiency—in the system...

...and even at 128 nodes, test results show an impressive 84 percent efficiency!

To make DB2 pureScale technology easy to deploy, the DB2 installer handles installation and configuration of all components.

Monitoring is integrated into IBM Data Studio tools.

DB2 fix packs include all the updates for the components so multiple software installs and upgrades aren't required.

Simple commands enable database administrators to add and remove members without having to leave a DB2 interface or call a system administrator.

DB2 pureScale offers continuous availability during unplanned and planned outages.

For unplanned outages, DB2 pureScale enables you to recover instantly.

When one or more members fail, the workload balancer automatically recognizes which members are available, sending new transactions to the surviving members without interruption to your application.

The remaining members in the cluster have uninterrupted access to the data, while in-flight transactions are recovered promptly.

For planned outages, DB2 pureScale technology provides zero down time.

You can do rolling maintenance across your cluster, with transparency to the application. There is no interruption to your environment. One command drains and re-adds the member to the cluster.

10.

With a smarter IT infrastructure, your business can:

- Reduce the risk and cost of meeting changing business demands
- Capitalize on new business opportunities
- Run 24/7 and avoid costly outages
- Support big promotions by adding capacity easily
- Handle large volumes of transactions on short notice

11.

It's time to break free from high database costs!

Find out how easy it is to move your applications to IBM DB2 pureScale technology and break free from high database costs.

For more information, visit ibm.com/db2/purescale and ibm.com/breakfree