

# A NewSQL Distributed Database for Transactional Big Data Applications



Clustrix offers a radically simple yet powerful distributed database solution in the form of a MySQL-compatible appliance. It's easy to install, automates fault tolerance and expands on the fly as the database grows— without requiring new skills. Just set, forget, and grow!

## Distributed Relational Database Architecture

Clustrix provides scale-out transactional performance with a unique parallel query approach that generates distributed query plans and query fragments for speed and scale.

## Linear Transactional Performance

Clustrix is the only provider of linear scale on the planet. Add nodes as needed with no upper limit. No need to ever shard again to achieve scale.

## Automatic Fault Tolerance

Continuous application availability is ensured with built-in redundancy, automatic failover at the data level, and online schema changes that enable application innovation without taking the database down. Absolutely no operator intervention required. A replacement node will seamlessly integrate into the cluster with zero application downtime—no labor-intensive work needed to fix replication.

## Always ACID Compliant

The Clustrix database was built from the ground up with ACID compliance in mind. Each part of ACID (Atomicity, Consistency, Isolation, and Durability) has code throughout the system dedicated to it. All transactions are ACID compliant without compromise. All the time.

## Optimized Appliance Architecture

The shared-nothing, low-latency compute platform is built on solid-state drive (SSD) and industry standard building blocks with automatic data redistribution that maintains performance as the database changes and grows. Not only is the appliance cost effective and easy to install and use, each component is tested for data integrity, data durability, and manageability.



### CLX 4100

- 4 cores
- 24GB RAM
- 448GB SSD

### CLX 4110

- 8 cores
- 48GB RAM
- 896GB SSD



## Eliminate Sharding!

The Clustrix database scales with your application so you never have to shard again.



201 Mission Street  
Suite 800  
San Francisco, CA 94105  
(415) 501-9560  
[www.clustrix.com](http://www.clustrix.com)

## Speed. Scale. Simplicity. Right Out Of The Box.

The Clustrix appliance delivers optimal performance right out of the box—without any tuning or guesswork. Since each node is pre-configured, installation and management is greatly simplified. No new application or DBA skills.

Creating a Clustrix cluster is easy: just add one or two interconnect switches to three or more appliances (or nodes). No matter the number of appliances, they appear as a single database that is managed from a single console. Simply plug in more pre-configured nodes for additional capacity and transactional throughput.

### Unmatched Ease of Use

- Entire cluster managed as a single database
- Delivered as a turnkey appliance
- No storage configuration, drivers, kernel versions to manage
- Online schema changes with no locking of tables
- MySQL drop-in compatible for simple deployment and testing

### Unlimited Performance

- High performance on read, write, and mixed workloads
- High performance on low to extremely high concurrency
- High performance on simple OLTP queries to extremely complex OLAP queries

### Unlimited Flexibility

- Full relational capabilities
- Transactional-ACID compliant
- Any MySQL data type
- Unlimited database size
- Unlimited table size

### Unlimited Replication

- Drop seamlessly into any MySQL replication topology
- Full support for MySQL replication protocol: master and slave, row based and statement based
- Works as a master to multiple slaves with different binlogs
- Works as a slave to multiple masters

