



“Part of the reason we purchased the Clustrix solution was the fact that Clustrix is MySQL-compatible, and does not require changes to existing architecture, database schemas or applications.”

Robert Zotter
Lead Engineer
iOffer

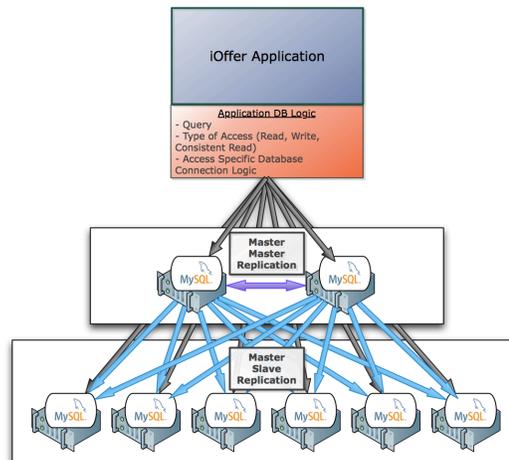
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ABOUT IOFFER

iOffer is the fastest growing destination for interactive social commerce with a vibrant global community that connects visitors from over 190 countries in every language via millions of item listings.

PRE-CLUSTRIX

Pre-Clustrix, iOffer was running with a multi-master and many slave replication setup, separating reads from writes and introducing replication as a scale-out strategy. This architecture required development and application logic maintenance to deal with multiple database connections. Writes had to go to the masters and reads from one of the slaves, unless the reads required consistency in which case they had to come from one of the masters. This led to complicated application logic and an ever-growing and uneven load across the different masters and slaves.



Before Clustrix, iOffer managed multiple levels of database replication. This created the need for extra database connection management logic in the application. “Bringing up new slaves was close to hell.”



“As our transactional workload continues to grow, we will continue to reap even greater benefits of Clustrix’s scalable, fault-tolerant, fully relational, and distributed database architecture.”

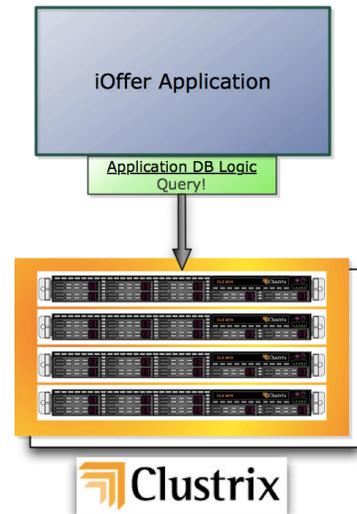
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APPLICATION COMPLEXITY

In order to move to their next level of scale, iOffer considered sharding strategies despite the burden it would place on the application developers to maintain the relational information across the shards. Once a system reaches capacity, re-sharding is extremely labor intensive.

iOffer also needed to capture information about site usage. These longer, more intensive queries were farmed off to a separate MySQL slave that was independently managed. This type of application complexity is the unfortunate result of the lack of true scalability in a MySQL replication environment.



Clustrix clusters look like MySQL on the wire so there’s no need for application change. Fault-tolerance, scale, and ease of use are the core principals of Clustrix.

CLUSTRIX PROVIDES SCALE AND FLEXIBILITY

iOffer’s lead engineer predicted that sharding was an impending strategy, and, wanting to avoid it at all costs, went in search of a system to solve its performance issues. After thorough searching, iOffer settled on Clustrix.

The Clustrix deployment is considerably simpler than other solutions, since the cluster is self-healing and self-managing. The application servers talk directly to the cluster via the Clustrix VIP (Virtual IP). There is no need for complex application logic to deal with read vs. write databases. No matter the size and number of nodes in the cluster, Clustrix always looks and acts like a single instance database. With the Clustrix cluster, there is no single point of failure. The nodes are all peers for one another and act as a team to ensure cluster uptime and consistency. If a node fails, the cluster will route around it. And best of all – **no need for sharding to achieve scale!**

With Clustrix, iOffer can focus on the business of scaling and growing their business rather than fighting complicated database scaling challenges.