High availability is important for any communications provider. No database means no phone communications.”

Wolfgang Peschta, Co-Owner & CEO of Net-Sol

The database setup, a multi-node MySQL Master-Master cluster using Galera Clustering technology, was difficult to manage for the ops team. The database also utilized HAProxy for load balancing with a manual failover scripts in place. Those scripts, however, were only partially successful in maintaining uptime and system performance which resulted from the twelve time the system failed-over that previous year.
SOLUTION

The Net-Sol team needed a solution that was easy to manage by the entirety of their team, regardless of database knowledge level. They also wanted to be able to deep-dive into their database cluster to understand what was happening under the hood. Lastly, they desired a better failover solution and the ability to easily deploy and upgrade nodes.

They took the web to search for a solution to their ongoing performance issues and failures but initially came up short. They spoke with Oracle about a combination of support and tools but found it to be cost-prohibitive.

Later, Wolfgang Peschta attended a failover webinar hosted by Severalnines and decided to give ClusterControl a try. ClusterControl, they found, ticked all their boxes and was a software solution that was easy to setup and maintain.

Within two days (and without any assistance from the Severalnines team) the Net-Sol team had ClusterControl deployed, their clusters imported and operating, HAProxy configured, and were finally able to monitor at the individual node and query level. “Every engineer on our team is now able to check the health status and even upgrade the cluster,” said Peschta.

“It in the market there are monitoring tools and there are some tools and utilities for backups, failover, upgrades, etc. - but not the whole thing, especially when a proxy is involved,” continued Peschta. “ClusterControl integrates the load balancing, and allows you to manage the full stack.”

THE RESULTS

It is hard to deny the results of Net-Sol implementing ClusterControl. While they initially set-out to have a better administration and monitoring tool, speed and performance of their database cluster improved by 15%.

In addition, ClusterControl’s support of different technologies and approaches has prompted them to re-evaluate some of the aspects of their setup to test new ways of architecting their solution.

WHY SEVERALNINES?

“If you need a reliable cluster management system, you need to evaluate ClusterControl,” said Peschta. “It is the best we have found for clustering open source databases. Severalnines is a perfect company with a very personal sales process that found a solution for every problem we had.”

• An Intuitive GUI: The ClusterControl GUI makes it easy to deploy, monitor and configure every aspect of your database cluster. You can see your current database configurations, easily make changes and even apply upgrades and patches… all with a click of a mouse.

• Easily Used by the Entire Ops Team: Managing highly available open source databases is complex, with too many point solutions available, and lack of expert personnel. With ClusterControl Net-Sol was able distribute the ongoing monitoring and maintenance of their complex database cluster to all members of the team, without the need for specific expertise.

• Achieve Reliable Database Operations: The growth of the database is a continuing concern for Net-Sol, and being able to automatically track health, performance and perform necessary maintenance tasks allowed the team to take comfort that they had their database under control.

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