Cluster Control

1.   What is it?

ClusterControl is a database management tool used to deploy, monitor and scale database clusters. The easy to use web graphical interface to manage, monitor and auto-scale clustered databases supports MySQL Replication, MySQL Cluster and Galera Cluster.
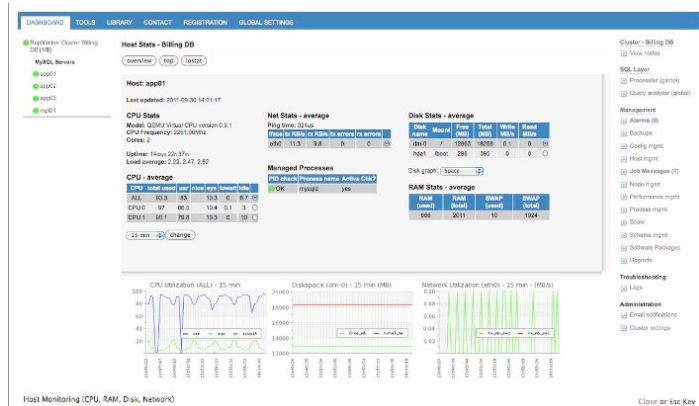
The main features are:

- Configuration wizard used to easily configure the cluster without prior knowledge of all the parameters or dependencies involved
- Automated deployment
- Simple and easy to use web interface
- Single, consolidated view of the whole cluster and underlying OS/HW resources

- SQL benchmarking
- Granular end-to-end transactions and database operations monitoring
- Availability manager (for automatic node fail-over and recovery, rolling restarts, cluster recovery)
- Configuration management
- Backup scheduler
- Automated online rolling upgrades of database software
- Add/drop nodes from cluster

ClusterControl for Galera is supported by MariaDB. ClusterControl for MySQL Cluster is supported by MariaDB in conjunction with SeveralNines.

2.   How does it work?

The core components consist of a controller and one or more agents that are installed on the managed nodes. Each agent reports monitoring data to the controller, which stores the data in a local database.

ClusterControl supports multiple clustering topologies using MySQL Replication, MySQL Cluster and Galera Cluster.

3.   When to use it?

- If you need a central interface to operate one or multiple clusters
- To manage whole clusters instead of individual DB nodes
- To automate operations like performance checks, node health checks and online cluster backups
- To automate management tasks like cluster-wide configuration changes, rolling restarts, online DB software upgrades, add/remove nodes

4.   Resources

- ClusterControl for MySQL Cluster: www.severalnines.com/cluster-control-mysql-cluster
- ClusterControl for Galera Cluster: www.severalnines.com/clustercontrol-mysql-galera
- Tutorial: Galera Cluster: www.severalnines.com/clustercontrol-mysql-galera-tutorial
- Training slides: MySQL Cluster www.severalnines.com/mysql-cluster-training
- Customer References: www.severalnines.com/references