

Application layer

Any application server can accomplish both reads and writes on any node of the Aurora cluster.

OLTP layer

The Aurora cluster will serve as a drop in replacement for the current OLTP monolith. Aurora provides for both multiple entrypoints for data, as opposed to the classic Master/Slave/Slave architecture (with some caveats) and is both geographically disparate and with all the benefits of an RDS instance, such as snapshotting, DR, etc.

Transform layer

These three MariaDB instances will be slaves to the Aurora cluster. In addition to having this group of instances doing the "heavy lifting," they can also serve as an immediate backup, especially if configured to start and stop replication at intervals to allow the BI transforms to have a steady-state.

Extract/Load layer

OLAP layer