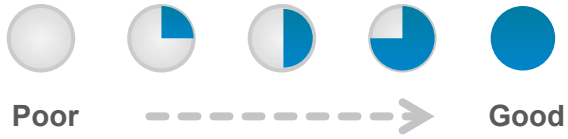
continuent

Competitive Scorecard

MySQL Clustering for HA, DR and MSMM



Top Prioritized Use Cases	Tungsten Clustering	Amazon RDS	RDS w/ Aurora	MySQL native	MySQL Fabric	Galera Cluster
HA (Local)	Yes, automatic failover for primary and secondaries	Yes, automatic failover, can take minutes across AZs	Yes, automatic failover and auto replicated across three AZs	Not supported directly, third party tool required	Automatic failover and redirection	Not supported, can be directed to another host
DR (Local/Remote)	Yes, both local, remote and global DR is supported	Supported, w/ significantly increased latency	Supported w/ significantly increased latency	Not supported, replication to a remote site is possible	Not supported, a third party tool required	Not supported
Load Balancing	Yes, provided automatically and transparently	Not supported w/o a third party tool such as HA Proxy	Not supported w/out a third party tool such as HA Proxy	Not supported. Can be combined with MySQL Fabric	Supported for read and writes, through sharding and distribution	Automatically load balances the reads/writes to multiple primaries
Zero Downtime Maintenance	Enables both database, operating system and hardware changes	Not supported; changes or AWS outages can have significant impact	Not supported; changes or AWS outages can have significant impact.	Not built-in. In MySQL 5.6 the use of GTIDs can make stop/restart easy	Not supported without a more complex configuration	Changes are supported, but can be costly and time consuming
Performance	High; built-in load balancing and read/write splitting- scale cluster up and down	Variable; Depends on I/O and connectivity requested; No auto distribution	Variable; Depends on I/O and connectivity requested; No auto distribution	Native performance is high, but not w/ complex topology	High, providing the data has been sharded and distributed effectively	Synchronous nature implies additional overhead during writes
Transparency	Requires no app changes or modifications to achieve all functionality.	Requires no app changes, for transparency requires deployment w/i AWS	No app changes, needs add'l components for multi region or load balancing	Dependent on 3rd party solution used	Must use Oracle drivers	Req. Galera cluster and app made aware of changes