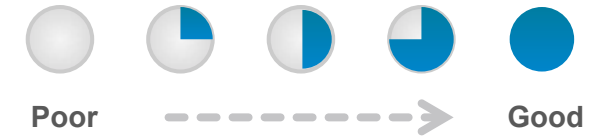




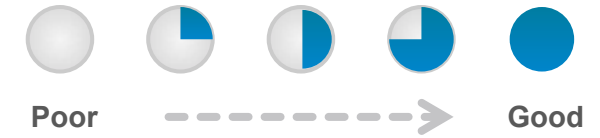
Competitive Scorecard

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 3 rd party solution used 	Must use Oracle drivers 	Req. Galera cluster and app made aware of changes

Competitive Scorecard



Oracle Replication and Real-Time Loading into Analytics

Top Prioritized Use Cases	Tungsten Replicator	Oracle GoldenGate	Shareplex	Attunity	Talend	Dbvisit Replicate
Replication Targets	Oracle, MySQL, PostgreSQL, Hadoop, Vertica, MongoDB, Amazon Redshift, Kafka, Cassandra	Oracle, MySQL, Microsoft SQL Server, IBM DB2, Sybase, Hadoop, Kafka	Oracle, Hadoop, SQL Server, Kafka, Teradata	Oracle, Hadoop, SQL Server, Teradata, Others, Kafka	MongoDB, Cassandra, Hadoop, CouchDB, Couchbase, Riak	Oracle, MySQL, Microsoft SQL Server, Kafka, TIBCO and PostgreSQL
Continuous Replication	Yes	Yes	Yes	Yes	Not supported	Yes
Topology Support	One to One, One to Many, Many to One	One to One, One to Many, and Many to One	One to One	One to One, One to Many, Many to One	One to One, One to Many by repeating extract	One to One, One to Many, Many to One
Encryption/SSL	Between database and replicators and between replicators	Enhanced through secure password store	Not supported	Between replicators	Limited support to databases	Between replicators
Database Impact	Low	Low	High	Depends on Database	High	Low
Change Data Capture Exposed	Yes	Not supported	Not supported	Limited	Not supported	
Filtering	Advanced selection, content and reconstruction filtering	Limited filtering and transformations	Limited table/column filtering	Limited table/column filtering	Advanced loading and transformations	Row filtering supported; Limited table/column filtering
Failure and monitoring	Simple status and start/stop recovery enable fast restart	Failure identified complex, bounded recovery makes restart easy	Replication stalls and errors difficult to identify and recovery from	Web-console	Limited; failure requires complete reload rather than restart	Status and console access