ScaleArc for MySQL 3.5
Key Features

Key Features in ScaleArc for MySQL

Feature	Description	Benefit
Auto failover	Detects MySQL server failures and performs role changes within the ScaleArc cluster Supports multi-data center topologies with auto failover framework	Enables automatic database failover that prevents application errors Provides automatic failover by handling both replication and client connection on database failure
Connection multiplexing	Aggregates multiple client connections into fewer server connections	Reduces server connection count and churn Increases server performance and availability
Query-response caching	Uses agentless pattern-based in-memory NoSQL cache for query responses	Provides instant scale up without app modifications Extends life of servers and increases ROI
Auto cache invalidation	Uses inserts/updates/comments/APIs as invalidation directives to cached responses, and enables ACID compliant caching for application data	Broadens the data sets that can be cached – e.g., shopping cart data, user profile tables Lessen network load and enables faster data retrieval
Surge protection	Manages client connection surges, queuing excess traffic when all server connections are busy	Increases uptime during traffic surges Reduces app errors during peak loads Buffers traffic during auto failover

Key Features in ScaleArc for MySQL (cont.)

Feature	Description	Benefit
Read/write split	Distributes reads to slaves and writes to master servers on behalf of the application Supports read/write split for stored procedures	Provides transparent scale out with no application modifications
Load balancing	Directs queries based on optimum server response time and replication status	Increases uptime and availability Improves application performance
Query routing	Routes queries/stored procedures to different database servers based on regex rules	Avoids the time and effort needed to modify applications to increase write capacity Routes reporting workloads away from production database servers
Authentication offload for MySQL users	Authenticates MySQL client connections on behalf of the server – with support for old and new password formats	Improves performance by reducing server compute cycles
SSL offload	Supports SSL encryption for both client and server connections	Enables compliance for organizations requiring end-to-end SSL encryption
Real-time SQL analytics	Logs all SQL traffic and charts SQL query finger prints on a four-quadrant heat map	Reduces troubleshooting effort Highlights poorly performing queries
RESTful API	Supports integration with existing monitoring and management tools and processes	Simplifies configuration, management, and monitoring of the ScaleArc software
Cloud support of ScaleArc high availability active/passive mode	Extends support for configuration synch between ScaleArc instances to enable active/passive mode in the cloud	Brings auto failover and continuous availability to cloud deployments

Supported MySQL Versions

MySQL 4.0, 5.0, 5.1, 5.5, 5.6, 5.7

MariaDB, Percona, Percona XtraDB cluster