

ScaleArc for SQL Server, v 3.11

New and Existing Features

New Features in ScaleArc for SQL Server, v 3.11

Feature	Description	Benefit
Kerberos support	Supports user authentication via the Kerberos protocol	Broadens authentication options beyond Active Directory
HA improvements	Integrates Corosync and Pacemaker heartbeat tools	Increases resiliency between ScaleArc instances
Online documentation	Full searchable documentation available on www.scalearc.com site	Dramatically simplifies the process of installing, configuring, troubleshooting, and maximizing benefits of ScaleArc software

Existing Features in ScaleArc for SQL Server

Feature	Description	Benefit
Support for SQL Server 2016	Confirms interoperability with SQL Server 2016 capabilities	Extends ScaleArc's uptime and performance benefits to Microsoft's latest release
Active Directory integration	Automatically fetches SQL user credentials from AD Supports ScaleArc acting as a read-only domain controller to synch with users registered in AD	Simplifies the process of authenticating users within ScaleArc Maintains high performance and security simultaneously Automatically extends appropriate user access control to ScaleArc software

Existing Features in ScaleArc for SQL Server (cont.)

Feature	Description	Benefit
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 Enables organizations to route reporting workloads away from production database servers
Cursor support	Enables the ScaleArc software to distinguish query types within cursors	Applies all of ScaleArc traffic management functionality to queries written with cursors
SSL encryption support	Supports SSL certificates on ScaleArc to terminate SSL tunnels, apply ScaleArc traffic management, and reencrypt the traffic	Enables ScaleArc's traffic management capabilities to apply to encrypted traffic
Read/write split for Prepare Statements	Distributes reads to slaves and writes to master servers on behalf of the application which uses Prepare/Execute statements.	Provides transparent scale out with no application modifications.
Auto failover for Prepare Statements	Detects SQL Server failures and performs role changes within ScaleArc cluster. Supports Prepare Statements	Prevents application errors
Auto failover for SQL Server 2005/2008	Detects SQL Server failures and performs role changes within ScaleArc cluster in Auto failover framework using SQL Mirroring	Prevents application errors
Connection multiplexing	Aggregates multiple client connections into fewer server connections	Reduces server connection count and churn and 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 server connections are busy	Increases uptime during traffic surges Reduces app errors during peak loads Buffers traffic during auto failover
Read/write split	Distributes reads to secondary replicas and writes to primary nodes on behalf of the application. Supports read/write split for stored procedures	Provides transparent scale out with no application modifications

Existing Features in ScaleArc for SQL Server (cont.)

Feature	Description	Benefit
Load balancing	Directs queries based on optimum server response time and replication status	Increases uptime and availability Improves application performance
AlwaysOn integration	Identifies and monitors AlwaysOn Availability Group configuration and status changes	Minimizes the ScaleArc configuration needed to support AlwaysOn Enhances automatic AlwaysOn failover that prevents application errors
Authentication offload for SQL and Windows users	Authenticates SQL/Windows NTLM client connections on behalf of the server	Offloads server compute resources from connection authentication
Active Directory (AD) user sync	Automatic synchronization between ScaleArc and AD user authorizations for database access	Eliminate manual database user management in ScaleArc
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
SCOM plug-in	Supports native SCOM monitoring and alerting, with custom discovery and monitoring Management Packs (MPs) available in the ScaleArc Platinum edition	Simplifies management of ScaleArc by monitoring from within SCOM infrastructure
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
SSL Offload	Supports SSL encryption for both client and server connections	Enables compliance for organizations requiring end-to-end SSL encryption

Supported SQL Server Versions

SQL Server 2005, 2008, 2008/R2, 2012, 2014, 2016