



Sources

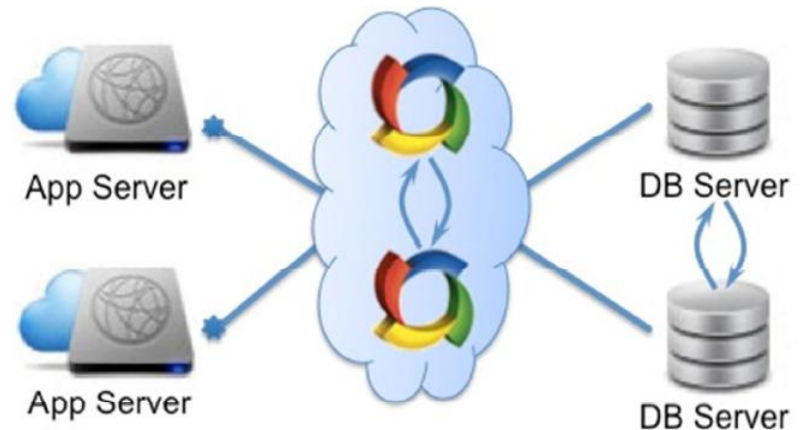
- ScaleArc website: <http://www.scalearc.com>
- ScaleArc Whitepaper
- Google

Basic Info

- R&D in Mumbai, India
- Headquarters in the Silicon Valley
- Raised \$5.3 million in December, 2011
- Were hiring 40 or so people in the winter, 2012
- April 10, 2012 – Palomino DB started offering ScaleArc as a MySQL solution

No intervention

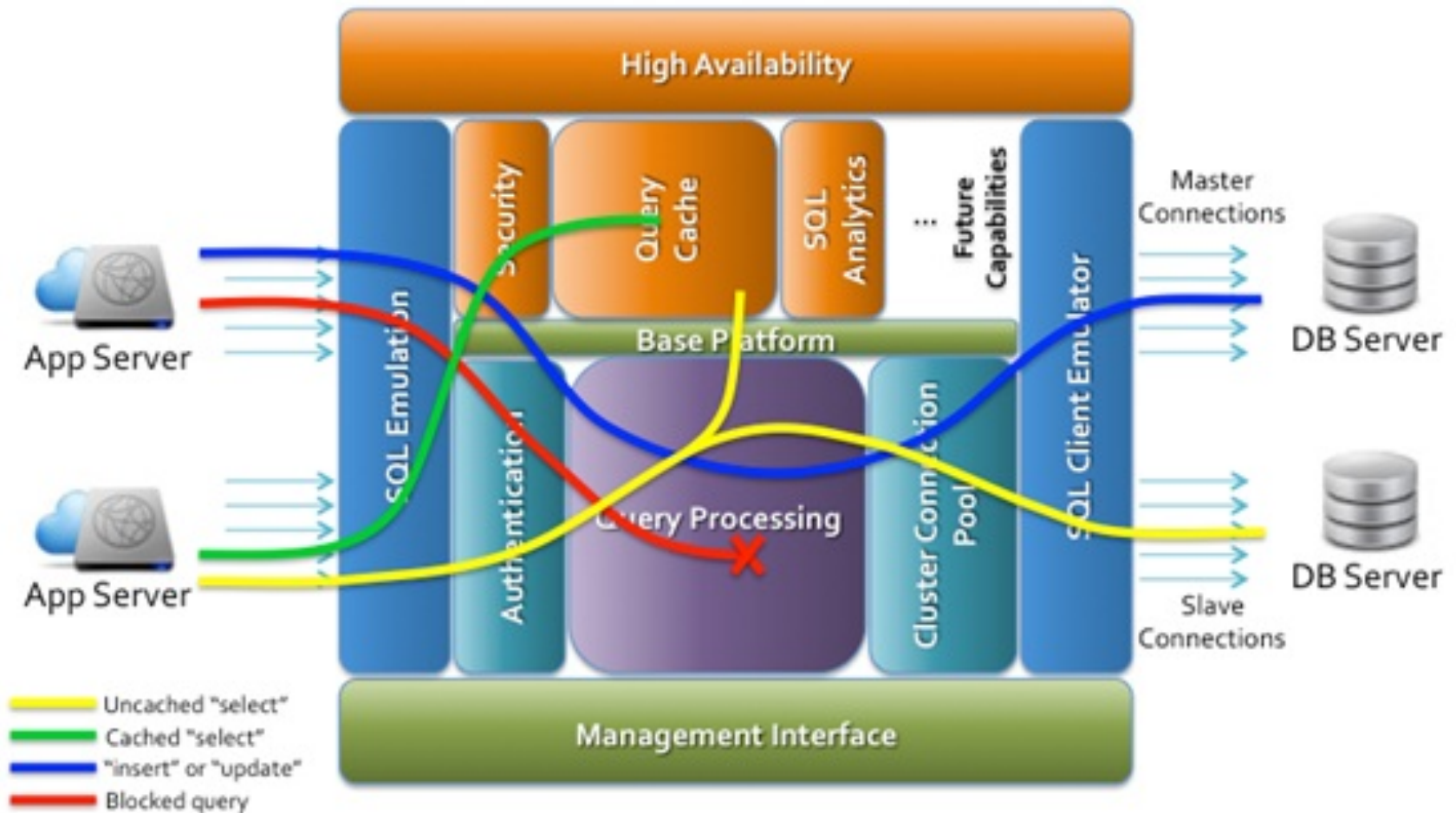
- Apps already function well
- DBs are already there
- No modifications
- Smooth transition
- MySQL
- PostgreSQL, MS SQL, Oracle (Beta)



SQL Queries Caching

- Manual regular expressions
 - “.*” – all queries
 - `SELECT * FROM customers WHERE id=.*`
- Automatically via query interception, logging and de-duplication
- TTL

Architecture



Capabilities

Query Analytics

- Analyze and present SQL queries in real-time, as patterns
- Quickly identify problem patterns and fix them
- Log every SQL query with ScalArc Log De-Duplication

High Availability and Security

- Dynamic, adaptive load balancing across multiple servers
- SQL query surge queuing
- Wirespeed SQL filtering (malicious/slow/data theft queries)

Increased Performance

- Connection pooling with dynamic fastest server response
- Offload frequent queries to cache without modifying apps
- Simple, one-click rules-based on-demand cache engine

Scalability

- Transparent read-write split between masters and slaves
- Transparent database sharding, rules based query routing
- Persistent, multiplexed connections

Architecture Enablement

- Support legacy architecture, private cloud or public cloud
- Aligns SQL and NoSQL database environments

Query Analytics

- SQL query patterns are automatically collected
- DBA can analyze them in terms of performance with a graphical tool

High Availability

- Dynamic Query Load Balancing – real-time monitoring of query response times
- SQL Query Surge Queue – holding client connections “on-hold” in a FIFO queue (60,000 connections supported)
- SQL Protocol-Level Security – block malicious, unoptimized SQL queries

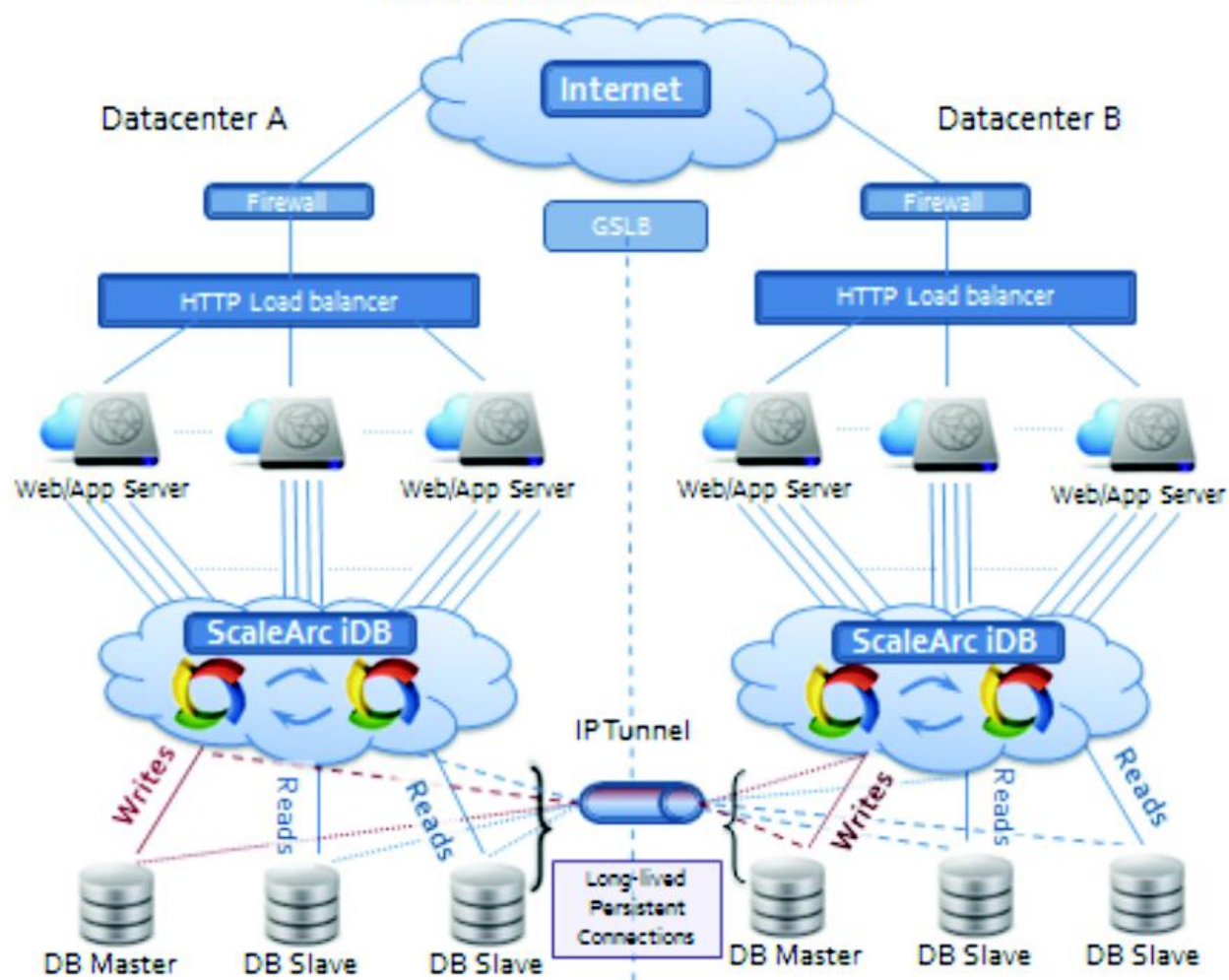
Increased Performance

- Pattern-Based Query Caching
- SQL Connection Pooling – connections are kept alive. No need to reconnect, re-authenticate, etc.

Scalability

- Transparent Clustering (Read-Write Split) – automatically routes all reads to slaves, all writes to masters. No need to change applications
- SQL Connection Multiplexing

ScaleArc iDB HA for Database Tier



Questions?