



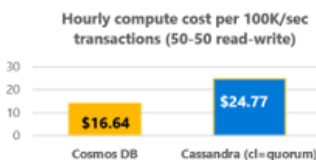
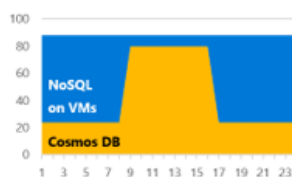
Azure Cosmos DB

Save vs Cassandra on IaaS

Cloud Cassandra TCO Challenges

TCO Savings with Azure Cosmos DB

Cassandra	Cosmos DB
High DevOps and license fees	No DevOps or license fees Up to 40% savings
Limited elasticity. Over-provisioning	Instant and limitless elasticity Up to 25% savings
Not Cloud-optimized. Poor compute, network, and storage utilization.	Azure-optimized. High compute and network utilization. Up to 40% savings



6TB workload, 80K TPS, 50-50 read-write split observed among our customers, off-peak to peak ratio is 40%, 1K objects. L16 VMs used per Azure guidance. DSE license is \$7,200 / year per node (assumes 8 cores). Azure monthly consumption prices were used. Findings based on Microsoft calculations.

\$28,762/ mo

DSE licenses

Bandwidth

Virtual Machines and Storage

18 node (L16) DataStax Cassandra cluster

\$17,952/ mo

Bandwidth

Virtual Machines and Storage

18 node (L16) Apache Cassandra cluster



\$9,924/mo

Bandwidth

Storage

Throughput

Azure Cosmos DB (list prices)