Azure Cosmos DB

AZURE COSMOS DB VS ON-PREM NOSQL

	Azure Cosmos DB	MongoDB on-prem	Cassandra on-prem
TCO	No license fees or DevOps needed	10% extra DevOps cost and 40% extra license fees	10% extra DevOps cost and 60% extra license fees
Enterprise Compliance	Microsoft offers the most comprehensive set of regional, national, and industry-specific compliance offerings of any cloud service provider, including HIPAA, DoD, GDPR, etc.	Limited and requires extra 40% license fee	Limited and requires extra 60% license fee
Security	Secure by default, built-in encryption at rest and motion, IP and VNet isolation, role-based access control	Limited, requires manual configuration and 40% extra license fee	Limited, requires manual configuration and 60% extra license fee
High Availability	99.999% availability SLA with money-back guarantee	Limited, requires management of replica clusters across regions	Limited, requires management of replica clusters across regions
Limitless Elastic Scale	Instant and limitless elastic scale, per transaction cost reduces as workload grows	Manual provisioning, no elasticity, transaction cost grows with workload	Manual provisioning, no elasticity, per transaction cost grows with workload
Fast	<10ms Read and Write requests at 99th percentile, with money-back guarantee	Requires manual fine-tuning; 100s of milliseconds at 99th percentile	Requires manual fine tuning, slower reads
Global distribution and Multi-Master	Turnkey global distribution of data across all Azure regions worldwide supporting reads and writes.	Manual provisioning of replica clusters	Manual provisioning of replica clusters
Multi-model, rich query, automatic indexing	Built in support for documents, graphs, key-value, wide-column. Automatic indexing	Documents	Wide column, limited query