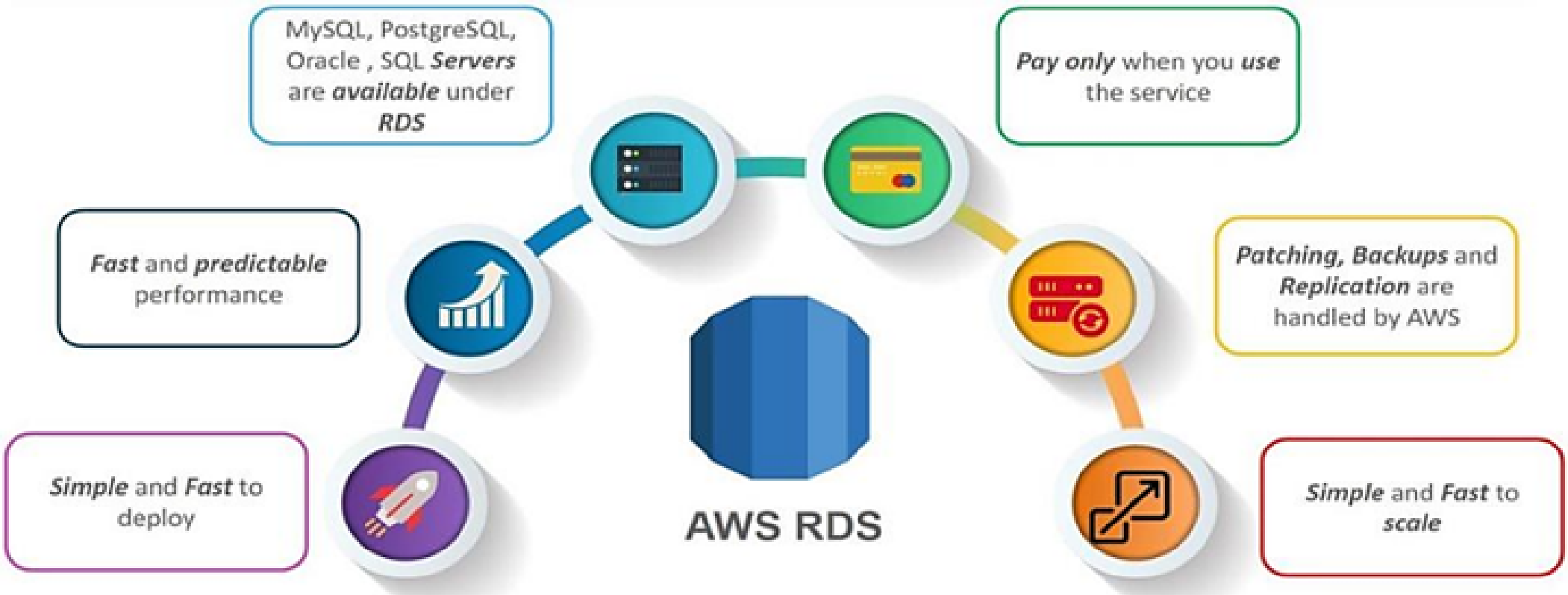
K21Academy
Learn Cloud from Experts

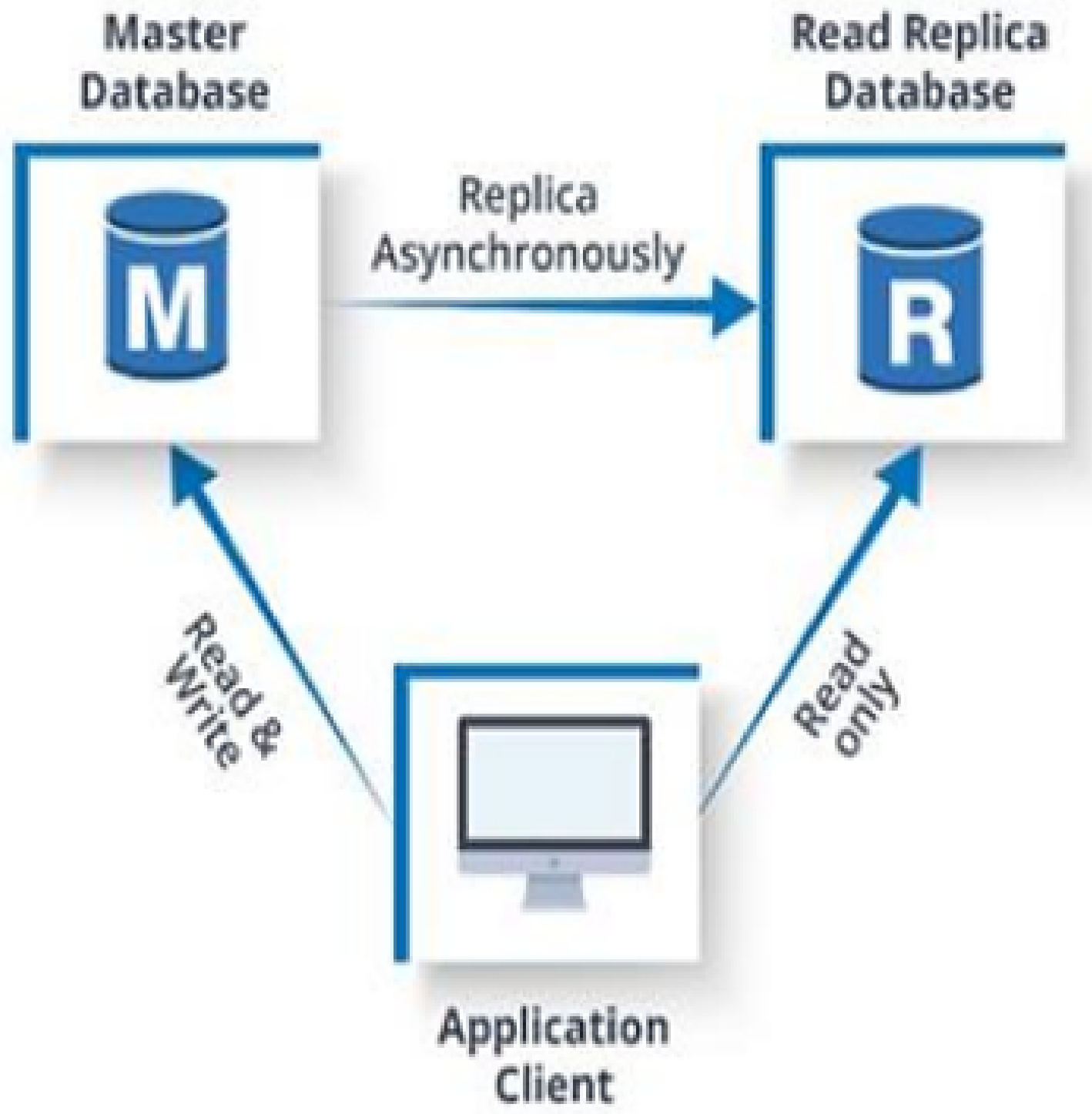
Types of AWS Database Services

	Relational	Key-value	Document	In-memory	Graph	Time-series	Ledger	Wide Column
	Referential integrity, ACID transactions, schema-on-write	High throughput, Low latency reads and writes, endless scale	Store documents and quickly access querying on any attribute	Query by key with microsecond latency	Quickly and easily create and navigate relationships between data	Collect, store, and process data sequenced by time	Complete, immutable, and verifiable history of all changes to application data	Scalable, highly available, and managed Apache Cassandra-compatible service
AWS Service(s)	Aurora RDS	DynamoDB	DocumentDB	ElastiCache	Neptune	Timestream	QLDB	Keyspaces Managed Cassandra
Common Use Cases	Lift and shift, ERP, CRM, finance	Real-time bidding, shopping cart, social, product catalog, customer preferences	Content management, personalization, mobile	Leaderboards real-time analytics, caching	Fraud detection, social networking, recommendation engine	IoT applications, event tracking	Systems of record, supply chain, health care, registrations, financial	Build low-latency applications, leverage open source, migrate Cassandra to the cloud

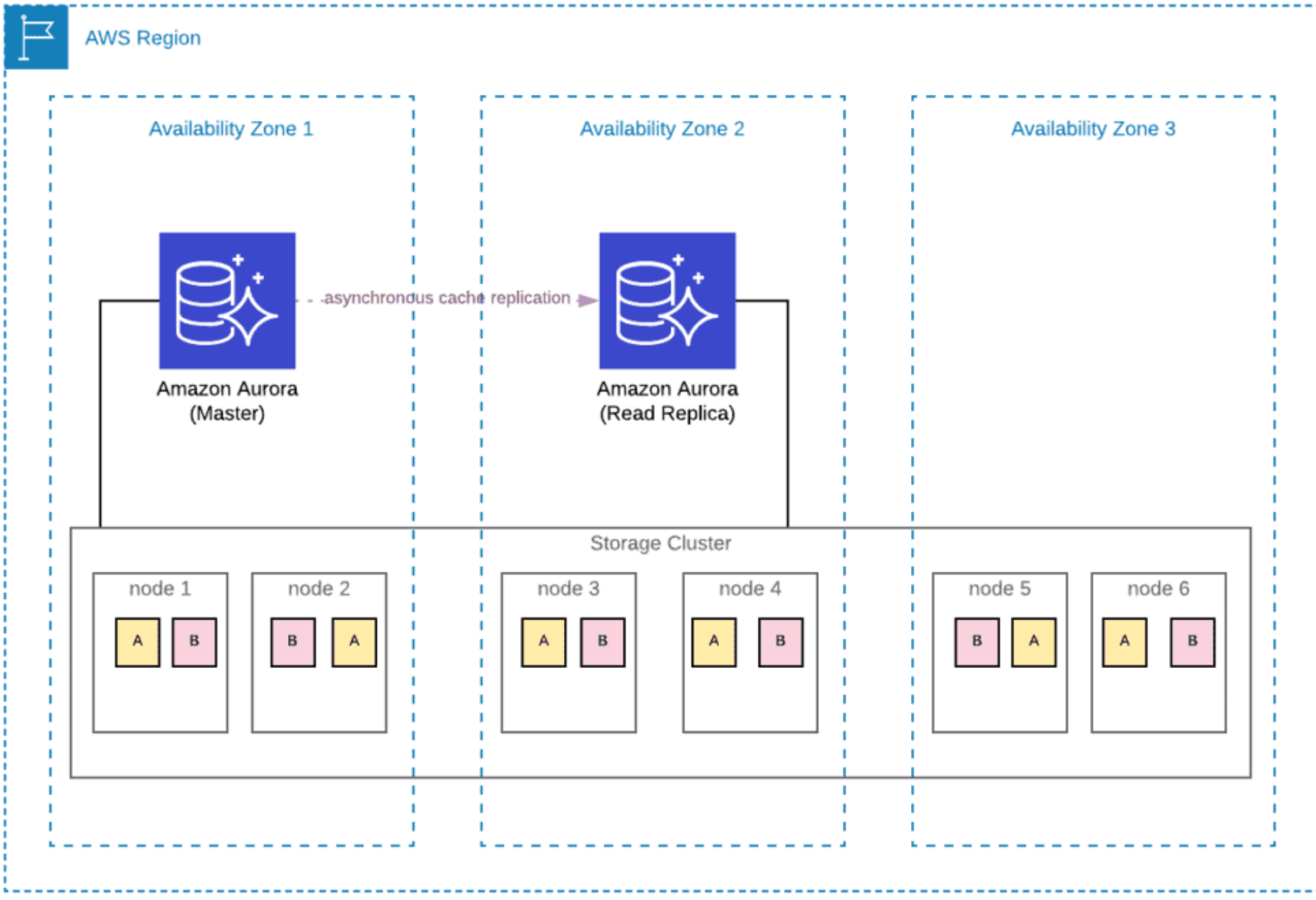
Amazon RDS


MySQL, PostgreSQL, Oracle , SQL *Servers* are *available* under *RDS*
Pay only when you *use* the service
Fast and *predictable* performance
Patching, Backups and *Replication* are handled by AWS
Simple and *Fast* to deploy
Simple and *Fast* to *scale*
AWS RDS

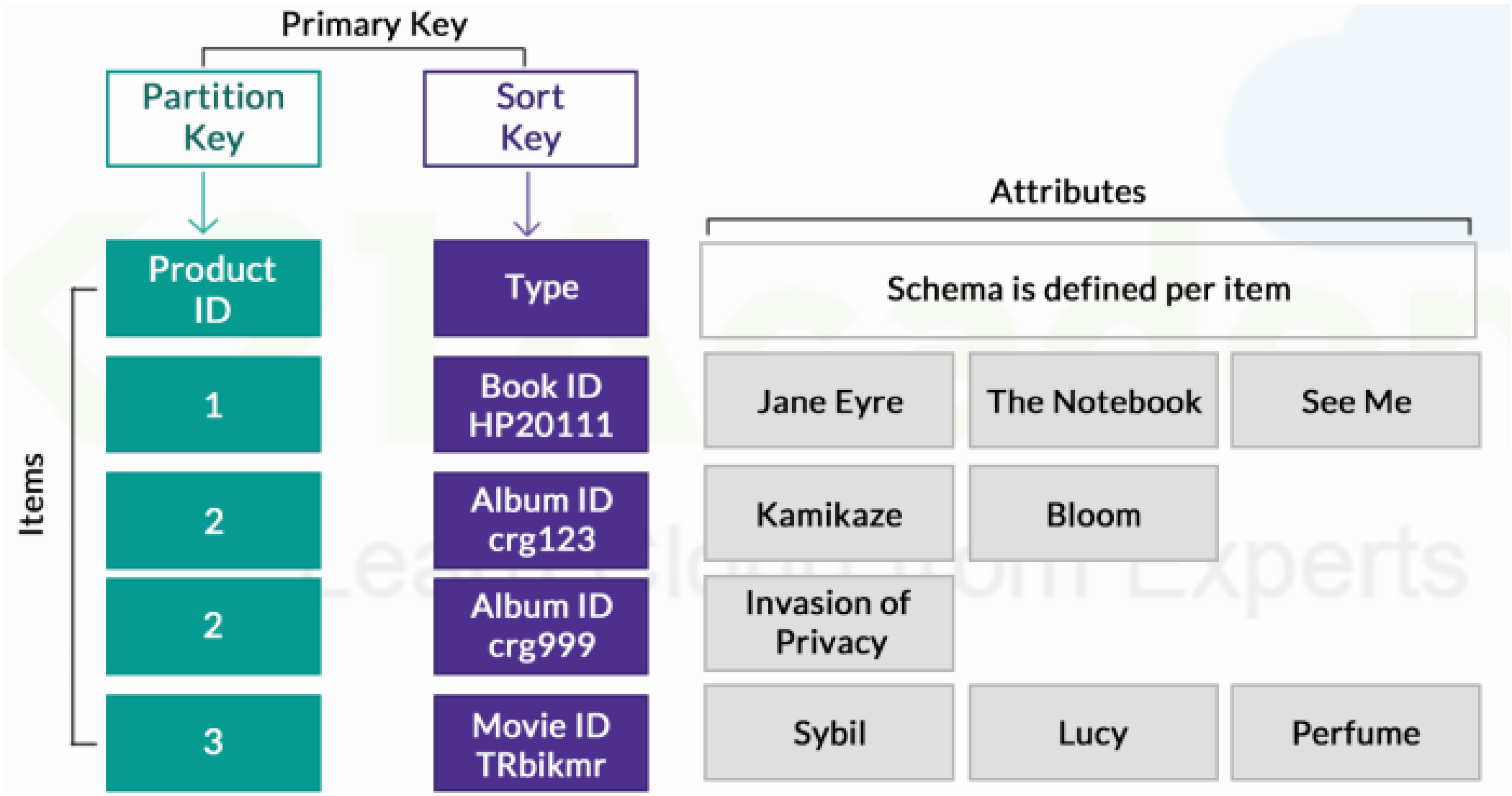
RDS Read Replica



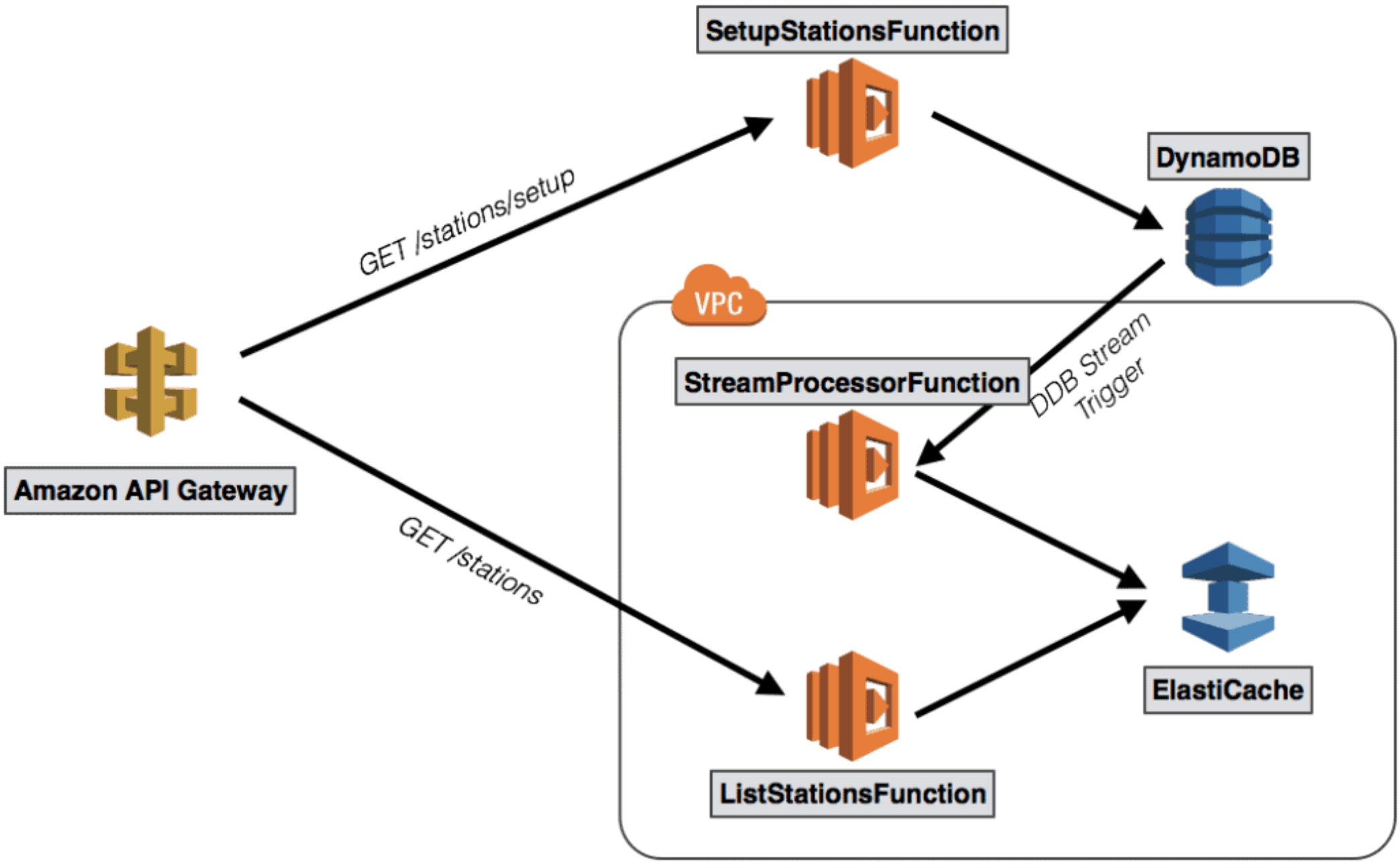
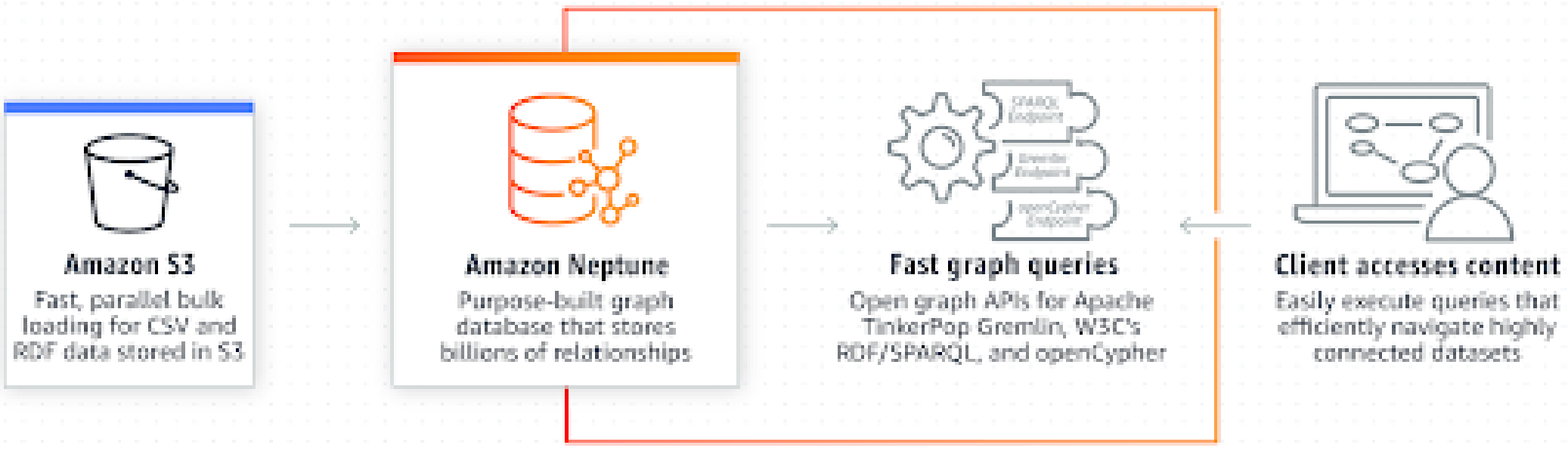
Amazon Aurora



Amazon DynamoDB



Amazon ElastiCache



Amazon Neptune