



Case Study

Scaling High-Availability Analytics for 700+ Users Across a 12+ GB Footprint Serving 1.1 Billion Global Consumers

Client Overview

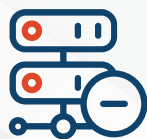
Global consumer packaged goods leaders rely on continuous, low-latency business intelligence to drive daily commercial decisions across extensive retail networks. This case study details the infrastructure deployment executed for an Indian CPG enterprise serving 1.1 billion global consumers. By re-architecting their analytics environment into a multi-node, SAN-backed high-availability topology with automated failover and role-based access control, the platform successfully stabilized a 12+ GB application estate, eliminating downtime risks for 700+ active enterprise users.

The Challenge?



Disruption Risk

Lack of a secondary failover node created vulnerability to total platform outages in the event of hardware or service failures.



Node Overload

Concurrently running scheduled data reloads and serving interactive user dashboards on identical nodes triggered recurring performance bottlenecks.



Governance Gaps

Complex security requirements across 700+ enterprise users without standardized role categorization.



Capacity Sizing Deficits

Absence of stream-level capacity planning for large applications and On-Demand App Generation (ODAG).

Solution Delivered



Workload-Segregated Topology

Isolated administrative coordination, scheduled reloads, and front-end consumer traffic onto dedicated, rightsized server nodes.



SAN-Backed Automated Failover

Deployed high-availability storage on a Storage Area Network (SAN) with automated passive node takeover capabilities.



Four-Tier Security Matrix

Structured user governance across Admin, Power User, Contributor, and Consumer profiles.



Stream & ODAG Capacity Modeling

Formulated capacity allocations at the individual stream level, incorporating dedicated sizing for ODAG and NPrinting distribution.

The Impact

Zero Service Downtime

Achieved total operational resilience through automated passive node failover.

Decoupled Resource Performance

Eliminated concurrency slowdowns across a 12+ GB app environment by separating reload jobs from user analytics sessions.

Optimized Capacity Planning

Deployed stream-level sizing best practices to ensure stability during peak ODAG and NPrinting execution.

Streamlined Enterprise RBAC

Standardized access permissions across 700+ global stakeholders, enforcing strict data governance.

Outcome

Building a resilient, high-availability analytics platform is essential for global enterprises managing massive consumer footprints. By transitioning to a decoupled, SAN-backed multi-node architecture with automated failover and stream-level capacity management, this consumer goods market leader successfully safeguarded platform availability. The solution provides the uptime, speed, and governance required to lower infrastructure maintenance overhead and support data-driven decision-making at global scale.



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