American Tech Company Boosts
IT Agility With Cloud Migration

◣ **Case Study**

Overview
Seamless transition experience

An American networking hardware company, with a revenue of
$740+ million, decided to exit its on-premises data centers and migrate
to Amazon Web Services (AWS) — to be able to scale flexibly, ensure business
continuity, enable robust data protection, improve cost-efficiency, and lay the
foundation for emerging technologies and innovation.

Zensar's brief:

- Migrate workloads and applications from two on-premises data centers
  (production and non-production) to AWS.
- Enhance security with ongoing monitoring, audits, and training.
- Optimize resource costs by leveraging AWS tools and services.

Beyond the brief:

We provided a seamless transition experience with maximized uptime and productivity. Using a phased migration approach and adequate redundancy planning, we ensured minimal business disruption.

Challenges
Time, cost, and quality expectations

The client's IT department, already overwhelmed with fixing concurrent request issues, was under pressure to manage the entire migration within challenging timelines and with cost-efficiency.

On-time delivery meant adding resources, streamlining tasks, and planning meticulously with extensive testing for early issue resolution.

Solution
IT ecosystem adapting to business priorities

Scope: The total scope of the migration included 300+ servers and 100 unique applications, out of which the critical applications were Oracle E-Business Suite, Informatica, and John Gault.

Approach: Meticulous planning, cutover and contingency preparation, regular mock drills, rigorous testing, and countless hours of dedicated effort helped mitigate risks and transition smoothly.

Migration: We executed application and workload migration, server and database migration, and AS2 connection migration with physical connections and border gateway protocol (BGP) routing.

Business continuity: We enhanced disaster recovery (DR) readiness with Oracle Hyperion DR syncing and optimized processes for effective resolution of performance issues.

Security: We enhanced the security of the systems and protected data from potential threats and attacks, using Amazon ports whitelisting, end-to-end testing, data integrity solutions, and security best practices.

Resource optimization: We identified several opportunities to optimize the cloud infrastructure and reduce costs by leveraging AWS services such as dedicated hosts and EC2 instances.

Staff education: We enabled the client's infrastructure team to learn and implement advanced technologies, in addition to the core systems consisting of EC2 instances, ALBs, and NLBs. These strategic implementations enhanced the migration process's efficiency and further optimized its outcomes.

Experience: Working within an aggressive timeline, we deployed a seamless migration solution that delivered on the three key tenets of time, cost, and quality.

Solution enablers

- Columnize for planning and assessment
- AWS Application Migration Service (MGN) for migration
- AWS Cloud Hardware Security Module (HSM) for code signing
- AWS Direct Connect for 300TB data transfer
- AWS FSx ONTAP for data storage
- Dedicated hosts for cost optimization
- Unique RMAN approach for DR
- Cohesity SaaS for backup and DR

Impact
Lower costs and higher efficiency

According to internal benchmarks, these results were delivered:

- 40 percent reduction in CapEx
- 20 percent improvement in batch runs
- 37 percent reduction in IT operation costs

Business outcomes: The solution enabled greater IT agility to support expanding business operations and explore exciting innovation opportunities.

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