



CYGNET.ONE

Success Story

Cloud-Based Modernization Helped ASP-GSP Cut Storage Costs by 50% and Improve Backup Recovery Time by 75%

Driving Scalability, Efficiency, and Cost Optimization with AWS

ASP GSP, a trusted GST Suvidha Provider appointed by the Government of India, powers seamless e-compliance for businesses across the nation. As data volumes and regulatory demands increased, ASP GSP proactively modernized its AWS cloud infrastructure.

With support from Cygnet.One, ASP GSP transitioned to a cost-optimized, cloud-native environment. The revamped setup improved scalability, boosted system resilience, and strengthened observability, while cutting storage costs and reducing recovery time by over **75%**.



Challenges

Obstacles that hindered modernization

- High licensing and compute costs from legacy SQL Server and non-optimized S3
- Rigid architecture and manual database scaling hindered performance
- Backups and monitoring involved manual, error-prone steps
- Lack of lifecycle policies and real-time observability limited control
- Fragmented visibility across systems slowed issue resolution



Solutions

Modernizing Infrastructure: A Future-Focused AWS Strategy

- Migrated SQL Server to self-managed PostgreSQL on EC2 using AWS DMS
- Refactored stored procedures to PL/pgSQL for compatibility
- Implemented S3 180-day lifecycle rules to optimize object storage
- Enabled daily AWS Backup snapshots with cross-region redundancy
- Built centralized monitoring stack with CloudWatch, OpenSearch & Grafana
- Strengthened compliance with encryption, IAM roles, CloudTrail & Config
- Developed BCDR workflows to exceed recovery objectives and resilience





Impact

Delivering Real Results Through Cloud Transformation



50% reduction in long-term storage costs via optimized S3 lifecycle policies



75% faster backup recovery time using automated snapshots and tested BCDR



Full observability across systems enabled better anomaly detection and alerting



Zero downtime during migration with live PostgreSQL switchover and testing



About Client

ASP GSP is a government-authorized GST Suvidha Provider that enables digital tax compliance across India. It handles vast volumes of financial transactions and integrations with GSTN, offering critical infrastructure and API services to enterprises and tax intermediaries nationwide.



CYGNET.ONE

Cygnnet Infotech is dedicated to excellence and is re-evolving as CYGNET.ONE to help consolidate its specialized offerings in Compliance transformations, Digital & Quality Engineering, Enterprise Modernization, Data, AI & Analytics Hyper Automation, Test automation, Digital signature, and a myriad of other offerings across Americas, the UK & Europe, Africa, the Middle East, and the Asia Pacific. Through Cygnnet Cosmos, our digital transformation framework, CYGNET.ONE empowers organization to achieve business process digital transformation through co-ideation, co-creation, co-innovation, and co-evolution. With a global presence spanning across diverse markets and industries, Cygnnet One serves as a one-stop destination for intelligent solutions, delivering value from ideation to execution, ultimately driving success for clients and partners worldwide.



CO-IDEATE

Co-Ideate for new product development & new market GTM



CO-CREATE

Co-Create technology enabled connected business solutions



CO-INNOVATE

Co-Innovate intelligent solutions with Cygnnet launchpad.



CO-EVOLVE

Co-Evolve with a strong continuum of Cygnnetians, clients, & partners.

www.cygnnet.one

