NORTHLAND BUSINESS SYSTEMS: FROM INFRASTRUCTURE FAILURE TO STRATEGIC INNOVATION

CHALLENGES

Northland Business Systems faced a critical failure of their on-premise infrastructure, which led to a series of service disruptions affecting daily operations and customer trust. Their system lacked redundancy, scalability, and a formal disaster recovery strategy—making every outage a high-stakes risk.

Key challenges included:

- **Unstable Infrastructure**: Frequent system crashes with no fault tolerance
- **Downtime Impacting Customers**: Disruptions directly affecting law enforcement operations
- **Limited In-House Resources**: No internal cloud expertise to manage a complex migration
- **Lack of Modernization Roadmap**: Legacy systems hindered long-term growth and innovation

The leadership team recognized that continuing with the current setup would not only slow growth—it could jeopardize customer relationships in a mission-critical industry.

Atlasticity utilized multiple AWS Services to significantly reduce time spent on troubleshooting weekly downtime effecting Northland Business Systems hosted environments. AWS Elastic Load Balancers were implemented to balance traffic, Web Application Firewall configured to protect from outside threats in conjunction with Guard Duty, and Direct Connect to ensure reliable connectivity to data center systems. Implementing these scalable services allowed Northland to focus on their growth initiatives instead of fielding support tickets increasing their new customer acquisition by 20%

OUR SOLUTIONS

Atlasticity delivered a two-phase solution:

Phase 1: Emergency Migration to AWS

- Lift-and-shift migration of all critical workloads within days
- Deployment of a secure, scalable AWS architecture with encrypted networking and firewalling
- Immediate stabilization of uptime and platform performance with Elastic Load Balancers and EC2 services

Phase 2: Strategic Modernization

- Migration of databases to Amazon EC2 for high availability and ease of management
- Implementation of AWS Backup and version-controlled snapshots for disaster recovery
- Use of CloudWatch and GuardDuty for real-time monitoring and threat detection
- Setup of CI/CD pipelines for faster, more reliable deployments

RESULTS

The Atlasticity-led migration didn't just solve Northland's infrastructure crisis—it laid the foundation for sustainable innovation:

- 99.99% Uptime Restored – Operational stability achieved within days
- 40% Reduction in Infrastructure Costs – By moving to optimized AWS services
- Full Data Redundancy & Compliance – With AWS-native security protocols
- Faster Release Cycles – Empowered by containerization and DevOps integration

Ask Us How To Fund Your Cloud POC & Migration