

BluePort Cargo

Cloud Migration & Network Modernization Brief

(BITS CloudReady™ Demo)



Overview

BluePort Cargo is a fictitious, mid-sized logistics and freight company created for demonstration purposes as part of the BITS CloudReady™ project.

It has 250 employees, headquartered across three main offices in Nairobi, Djibouti City, and Cairo, with a satellite office in Addis Ababa, Ethiopia. Specializing in regional and cross-border shipping, BluePort serves businesses and individual clients who rely on fast, reliable, and trackable cargo shipments.

Challenges

High Latency - Shipment tracking slow for remote offices

Unreliable Hosting – Downtime during peak seasons

High IT Costs – On-prem Servers & maintenance overhead

Business Goals

Host a secure, public-facing shipment tracking portal

Provide internal apps for inventory & route management

Maintain 99.5% uptime across all offices (multi-AZ deployment, automated failover)

Achieve RTO of 4 hours and RPO of 15 minutes for critical systems

Ensure compliance (GDPR, PCI-DSS, ISO 27001)

Technical Requirements

- PostgreSQL database for shipment tracking with automated backups and point-in-time recovery
- VPN for office connectivity with redundant tunnels
- IAM roles for regional staff with least privilege access policies
- Hybrid cloud setup (public/private subnets, VPC) with multi-AZ deployment
- Logging and monitoring w/ 90-day retention for operational logs & 1yr retention for audit logs
- AWS Budgets with a monthly cap and tagging standard for tracking

Disclaimer:

This document is part of the BITS CloudReady demonstration project and is for portfolio purposes only