in time tec
CREATING ABUNDANCE

Case Study
Industry: Healthcare

Modernizing Data, Security & Systems at Scale

Quick Stats

Verticals Served

- Cybersecurity
- AWS
- Cloud
- DevOps
- Data
- IT Services

Fixed or Ongoing Project

Ongoing Project

Project Build

Started from Scratch

Background

Blue Cross of Idaho (BCI), a major healthcare insurance provider, faced growing pressures to modernize its systems, secure sensitive data, and comply with regulatory mandates. Legacy tools like Jenkins and manual data processes posed serious operational and compliance risks. BCI needed scalable, cloud-native solutions to automate workflows, improve data accuracy, manage identity and access controls, and support seamless healthcare data exchange.

In partnership with In Time Tec, BCI initiated several modernization efforts, including CI/CD pipeline migrations, access control frameworks, FHIR data compliance, and Snowflake-based data transformation, all aligned with Blue Cross Blue Shield Association standards.

Key Results

#1 in Transformation Completion
BCI became one of the first to finish provider data updates.

Scalable Infrastructure Built to Grow
Future-ready architecture designed to evolve with BCI's needs

$1M Investment in Infrastructure
A $1M ground-up project modernized BCI's infrastructure and apps, enabling lasting digital transformation.

The Challenge

BCI's existing technology landscape was fragmented, outdated, and increasingly difficult to manage. The Jenkins-based CI/CD system lacked governance and accumulated over 300 pipelines with full admin access, creating substantial security and operational risks. Simultaneously, access control was overly permissive, with users having overlapping or excessive permissions across 45 AWS accounts—making compliance with HIPAA, NIST, and PCI standards difficult. Manual data processing also slowed down provider updates and introduced errors, creating obstacles to interoperability and regulatory alignment with BCBSA mandates. Additionally, the S3 data lake had become disorganized and inconsistent, limiting access to reliable, real-time healthcare insights. BCI needed to unify these disconnected systems, reduce risk, automate manual work, and establish scalable, compliant infrastructure across DevOps, identity management, data exchange, and analytics operations—all without disrupting day-to-day performance.

The Process

In Time Tec took a strategic, phased approach to address each area of concern. Jenkins pipelines were audited, categorized, and gradually migrated to a GitLab and AWS CodeBuild setup, reducing privilege requirements and improving CI/CD governance. CyberArk and SailPoint were deployed to implement secure, role-based access controls, supported by SSO and workforce password management to minimize identity risks. For provider data exchange, In Time Tec developed a FHIR-compliant, automated ingestion pipeline using ETL tools and API integrations to eliminate manual workflows and standardize data formats. Meanwhile, S3 data was cleansed, structured, and migrated to Snowflake using AWS Glue, Kafka, and Lambda—enabling improved analytics and performance. Across all initiatives, infrastructure-as-code, agile collaboration, and continuous testing ensured minimal disruption while laying the groundwork for scalable, future-ready systems.

Results & Impact

- **Modernized DevOps Ecosystem**

  Over 300 legacy Jenkins pipelines were migrated to GitLab CI/CD with AWS CodeBuild, significantly improving deployment speed, reducing maintenance overhead, and enhancing security across 45 AWS accounts.

- **Strengthened Access Control**

  Implemented CyberArk and SailPoint solutions to enforce least-privilege access, automate provisioning, and reduce security vulnerabilities—achieving HIPAA, PCI, and NIST compliance without disrupting user access or workflows.

- **Automated Data Exchange**

  Replaced manual, error-prone provider data handling with a scalable, FHIR-compliant solution that automates ingestion, transformation, and sharing—reducing turnaround times and boosting data integrity across systems.

- **Enhanced Data Visibility**

  Migrated disorganized S3 data into Snowflake using automated pipelines and real-time ingestion, providing BCI with structured, accessible data that supports faster insights and enterprise-wide decision-making.

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Get in Touch:

(208) 258-2424
info@intimetec.com