Transforming Data Integration for Smarter Healthcare Operations

Challenge

Following a complicated merger, a large healthcare staffing company faced significant challenges consolidating data into a single, reliable reporting environment for leadership. Critical operational and financial data had become spread across multiple systems, including web services, relational databases, and other even less accessible repositories.

The company's reporting processes relied on a locally hosted solution built on IIS and SQL, operated manually from a single laptop. Data extraction, transformation, and loading (ETL) required extensive manual effort and consumed up to 50% of one full-time employee's time. This approach significantly limited scalability, represented a great operational risk, and constrained leadership's ability to access timely, accurate insights.

The organization needed a modern, automated, and scalable data integration solution to support reliable reporting and post-merger operational visibility.

Solution

The organization chose INSPYR Solutions as a trusted partner to modernize its data integration and reporting architecture using a cloud-native approach on Microsoft Azure. Key components of the solution included:

- **Cloud-Based ETL Automation:** Migration of manual ETL

Automated data integration delivered real-time insights, reduced operational risk, improved efficiency, and enabled scalable growth.

processes to Azure Data Factory, enabling fully automated, nightly data synchronization.

- **Unified Data Repository:** Consolidation of data from Oracle NetSuite, APIs, Excel files, relational databases, and other data sources into a centralized Azure data environment.
- **Scalable Data Architecture:** Implementation of Azure Blob Storage and Data Lake to support secure, reliable, and scalable data ingestion and storage.
- **Power BI Reporting:** Development of Power BI dashboards driven by the unified data repository to support daily operational and strategic decision-making.
- **Operational Reliability:** Elimination of dependence on one person and one laptop, vastly improving system availability and reducing operational risk.

The solution was designed to support long-term scalability while minimizing manual intervention and ensuring operational continuity.

Outcome

The modernized data integration platform delivered immediate and measurable benefits:

- **Efficiency:** Eliminated manual data integration work, freeing up approximately 50% of a full-time employee's capacity.
- **Timely Insights:** The Power BI dashboards provided leadership with near real-time visibility into operations.
- **Reliability:** Improved system uptime and resilience through cloud-native architecture.
- **Scalability:** Established a flexible data foundation capable of supporting future growth and additional data sources.
- **Successful Deployment:** Achieved a smooth production go-live with full user adoption and no disruption to operations.

Client Profile

The client is a healthcare staffing organization that supports its clients' healthcare operations with data-driven workforce solutions.

Technologies Supported

Azure Blob Storage, Azure Data Factory, Azure Data Lake, Oracle NetSuite, Power BI, SQL.

About INSPYR Solutions

Technology is our focus and quality is our commitment. As a leading expert in delivering flexible technology and talent solutions, we strategically align industry and technical expertise with our clients' business objectives and cultural needs. Our tailored offerings include a wide variety of professional services, project solutions, managed services, and talent resources, all bolstered by our strategic partnerships with cutting-edge technology services. By always striving for excellence and focusing on the human aspect of our business, we work seamlessly with our talent and clients to match the right solutions to the right opportunities. Learn more about us at www.inspyrsolutions.com.