

Elevating Cyber Defense with Unified, Real-Time Threat Intelligence



The Customer

The customer is a top cybersecurity firm that provides essential protection against digital threats to organizations globally. The company's products are robust, and their tech is effective across devices and the cloud. Powered by AI and behavioral-based technology, the organization is driven by hundreds of researchers, hunters, and innovators, all committed to delivering the best cyberprotection available anywhere.

The Challenge

Some of the key challenges encountered include:

The customer needed to manage diverse and complex data from multiple sources like Cleverbridge, 2Checkout, and Zuora for analytics and decision-making. The primary challenges included maintaining consistent practices across multiple teams, ensuring high-quality code to prevent faulty transformations, effectively monitoring data quality, and adequately documenting and sharing knowledge about data transformations and models. These issues complicated data operations and could lead to inefficiencies in data handling and decision-making processes.

The Solution

To address these challenges, CriticalRiver implemented a solution integrating DBT Cloud and Snowflake, which includes:

- **DBT Cloud:** Streamlines onboarding, manages Git repositories, integrates CI/CD for high code quality, simplifies collaboration through a unified platform, enhances data quality monitoring with logging and alerting, and provides comprehensive data documentation with a data catalog.
- **Snowflake:** Offers scalable data warehousing and enhances query performance.
- **Amazon S3:** Stores transformed data for reporting and decision-making purposes.

The Results

- **Streamlined Operations:** Unified data modeling and transformation processes
- **Enhanced Productivity:** Reduced context switching and manual configurations
- **Improved Data Quality:** Automated checks and alerts for early issue detection
- **Effective Data Governance:** Enforced data masking policies and compliance
- **Agile Reporting:** Enabled rapid and reliable data analytics and reporting

Impact Delivered

- 95% enhanced data transformation accuracy
- 70% achieved a reduction in costs through optimized queries
- 65% improved data governance compliance

Solution Components

- DBT Cloud
- Snowflake
- Amazon S3 integration