



## Why the Role of Cloud Data Integration Tools Is Growing in Modern Data Engineering

Modern data-centric requirements shape how businesses manage information by implementing cloud data integration methods. **Spiral Mantra** specializes in connecting different data sources, so that companies gain real-time insights for smarter decisions.

According to research, the data integration market is on a strong growth trajectory, projected to reach [\\$30.27 billion by 2030](#). This surge is due to the developing businesses that choose cloud-based solutions to manage complex workflows and improve team collaboration.

In today's blog, we'll be discussing the significance of **cloud data integration** and examining the right cloud [data engineering services](#) provider.

### What is Cloud Data Integration

Cloud data integration is a process of combining data from different sources through a centralized cloud-based system.

Modern businesses can use this integration to place their data in a centralized location regardless of its source point – including cloud-based solutions, physical premises systems, or any combination of these. And **data integration** aims to simply unify these to improve operational efficiency and better decision-making.

The process of combining data from various systems encompasses cloud-based endpoints, which may include Azure SQL, Google Cloud SQL, Amazon RDS, Oracle Cloud Database, Snowflake, etc.

Now, let us take a look at the subtle differences between cloud and traditional data integration.

Feature	Cloud data integration	Traditional data integration
Deployment	Hosted on cloud platform that can be accessed online	Consist of on-premise servers within the organization
Scalability	Easily scalable	Restricted scalability
Cost effectiveness	Pay per use model with cost control	Higher licensing and maintenance cost
Data access	Can be accessed digitally from anywhere	Access restricted to local network
Example of tools	Google Dataflow, Azure Data Factory, AWS Glue	Talend Open Studio

### Why is Cloud Data Integration Important?

Business operations benefit from cloud data integration because it enables businesses to combine data across all locations for a unified format. This in return improves decision-making and operational efficiency through silo elimination.

Now let us take a look at some of its benefits in detail.

- **Single data access point:** Businesses find it easy to access data due to centralization.
- **Flexibility:** Cloud-based data integration benefits businesses in optimum resource utilization.
- **Cost effectiveness:** Post-cloud-based data integration, businesses can perform better by reducing unwanted costs.
- **Better decision making:** Real-time data synchronization helps in improved decision making.

## How to Integrate Data in the Cloud?

- **Extract, Transform, and Load:** This is a reliable way to combine data from multiple sources. It works by collecting data, then cleaning and formatting it, before storing it in a single place. And this is best for handling large amounts of data.
- **Extract, Load, and Transform:** In this, raw data is first loaded into a cloud data warehouse such as Snowflake before any changes are made. And thanks to powerful cloud infrastructure, ELT can process large amounts of data much faster. Today, businesses use tools like Snowflake to run ELT processes and prepare data before using BI applications.
- **Data integration:** This method allows us to connect to data and process data immediately through ongoing data arrival. Its fast and accurate processing is best for fraud detection, stock market analysis, and IoT equipment surveillance. And to make the streaming process uninterrupted, businesses often use Apache Kafka and AWS Kinesis platforms.

## Best Cloud Data Integration Tools

Designed to connect, ingest, and manage data across various systems within an organization, these **data integration tools** provide consistency, accessibility, and scalability of data critical to responsive enterprises.

1. **Hevo Data:** This is a no-code data pipeline platform that provides easy real-time ETL capabilities. It works by connecting to SaaS applications, databases, and cloud storage platforms while eliminating the need for any expertise.
2. **AWS Glue:** It operates automatically to prepare data for analytics and machine learning functions. Its comprehensive capabilities allow users to integrate data from AWS S3 storage, as well as from real-time streaming and batch sources.
3. **Snowflake:** This is a cloud-native data platform designed for storing, processing, and analyzing structured and semi-structured data. Its unique architecture enables fast and scalable analytics, supporting both integration as well as reporting needs.

## **Why Spiral Mantra is the Right Cloud Data Integration Platform**

Modern businesses are rethinking the way they operate after cloud integration. And to remain adaptive, scalable, as well as secure, it is important to not only use the right data integration tools, but also follow best ETL practices.

At Spiral Mantra, a top [Data Analytics solutions](#) provider, our experts enable seamless movement, transformation, and synchronization required for business intelligence. Get in touch with our digital transformation experts today to learn how we can support your journey.

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