

# DATA CONSOLIDATION



## Zero Copy Architecture in Salesforce Data Cloud

Zero-copy architecture in Salesforce Data Cloud refers to the ability to access and analyze data from external sources (like Snowflake, Databricks, etc.) without physically moving or duplicating the data into Salesforce.

Instead of copying the data into Salesforce, it is **queried in place**, allowing:

- Real-time insights
- Lower storage costs
- Better data governance

# Understanding Zero Copy Architecture

## Traditional ETL Approach

Extract, Transform, Load (ETL) processes:

- Physically copies data between systems
- Increases storage costs
- Introduces data latency issues
- Complicates governance and security

## Zero Copy Architecture

Modern approach that:

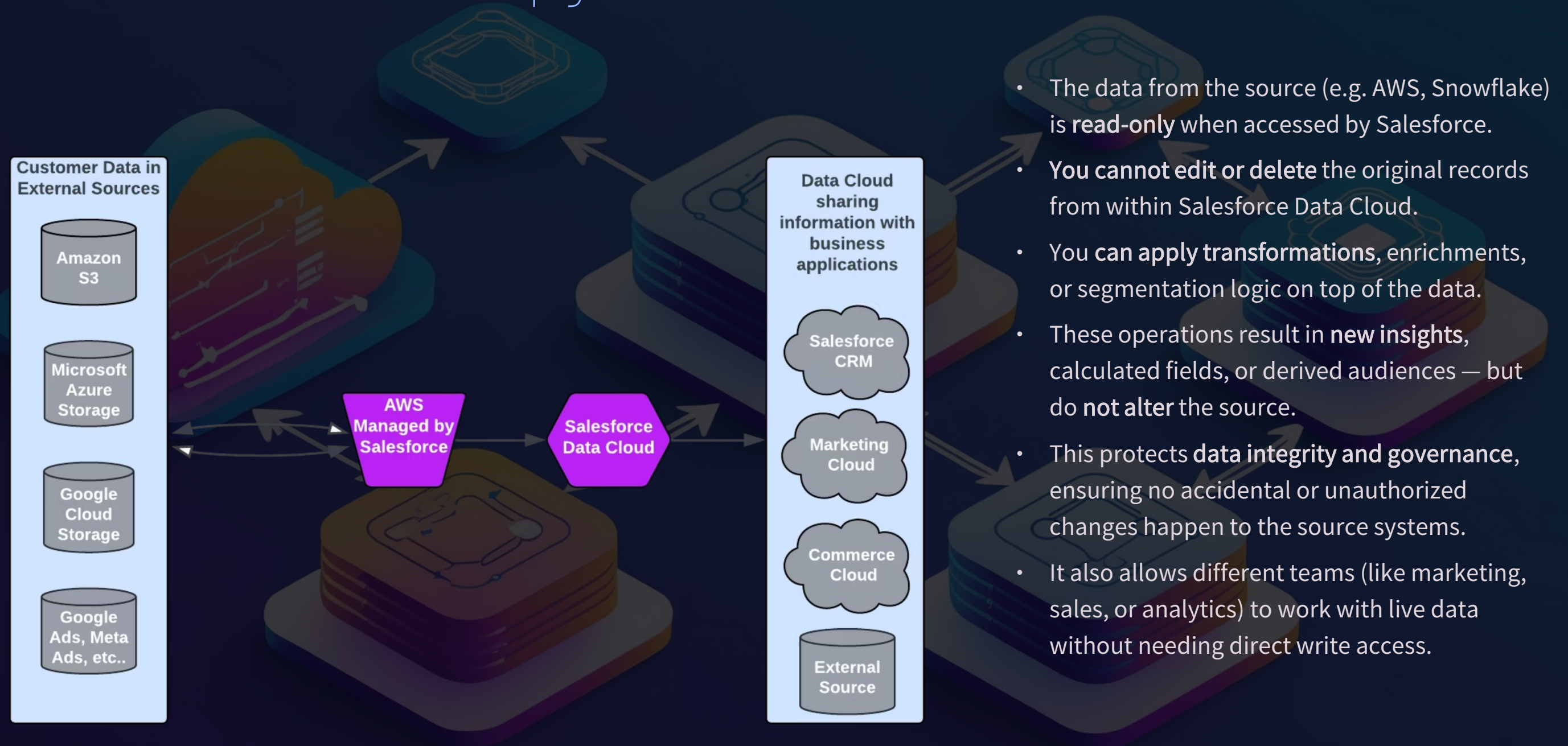
- Accesses data where it resides
- Queries external data in real-time
- Maintains single source of truth
- Simplifies compliance requirements

## Visualization of Tradition of Traditional ETL Data Architecture





# Zero Copy Architecture in Action



Data Flow from External Sources to Salesforce Data Cloud

# Data Governance, Security & Real-World Applications

## Enhanced Data Governance & Security

With Zero Copy Architecture, customers maintain complete ownership and control of their data. External data remains in its original location, subject to the customer's existing security protocols and governance policies.

## Infrastructure Clarification

While Salesforce leverages cloud infrastructure providers like AWS through Hyperforce, this is entirely separate from customers' own AWS data environments. All Salesforce-managed infrastructure is secure, encrypted, and isolated.

## Real-World Example: Activating Snowflake Data in Marketing Cloud

A financial services company needs to create personalized marketing campaigns based on customer transaction data stored in Snowflake:

- Zero Copy enables direct querying of Snowflake data
- Marketing Cloud accesses insights without data duplication
- Campaigns leverage real-time information
- Sensitive financial data never leaves secure environment

### Key Benefits

- Reduced storage costs
- Enhanced data security
- Real-time data access
- Faster time to insight
- Simplified compliance
- Single source of truth