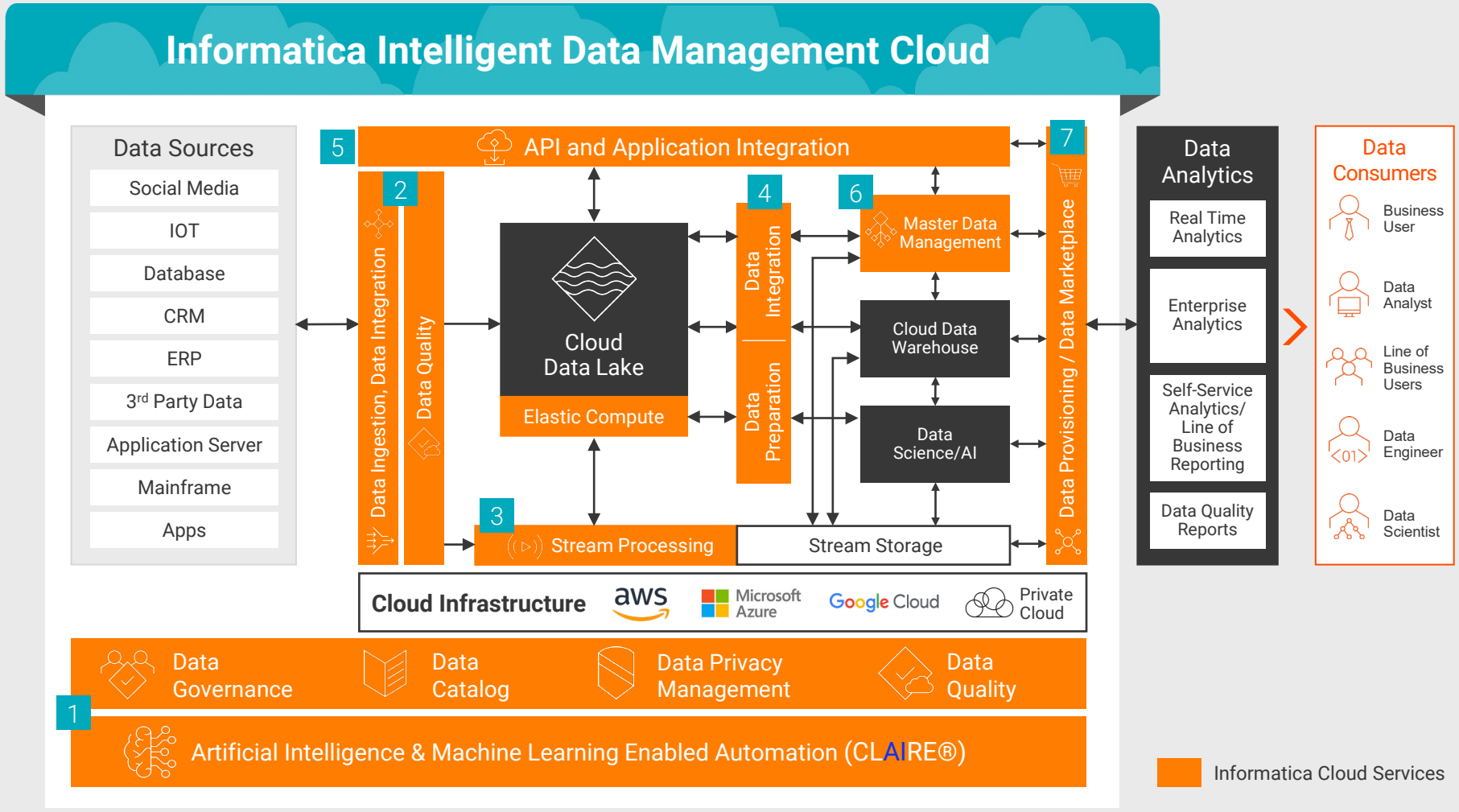
Informatica
Reference Architecture

Cloud Data Management Platform Architecture

Modern cloud-native end to end data management architecture enables organizations to control business data, both in the cloud and in a combination of on-premises and cloud applications using Informatica Data Management Cloud.



1. **Data Governance, Data Catalog, Data Privacy Management, Data Quality**—Modern data architecture must include capabilities to discover, govern, protect and secure data while leveraging the Informatica AI and machine-learning engine (CLAIRE®) built on a layer of common enterprise metadata. The data catalog discovers, indexes and curates all enterprise data while maintaining quality throughout data management processes.
2. **Data Ingestion, Data Integration, Data Quality**—Ingest any data at any speed using scalable streaming, or any file, database or application with comprehensive and high-performance connectivity for batch or real-time data in cloud data lake.
3. **Stream Processing**—Query and process continuous data streams and detect conditions in real-time. Data can be enriched with other data from the enterprise; i.e., data warehouse, master data or events that invoke machine learning algorithms, workflows and alerts in real time.
4. **Data Integration, Data Preparation**—Curated data gets provisioned as needed for data science/AI projects or integrated for cloud data warehousing.
5. **API and App Integration**—Connect to various applications and automate end-to-end business processes through API management.
6. **MDM/360 Applications**—Innovate with 360-degree views of business data domains and trusted intelligent insights.
7. **Data Provisioning, Data Marketplace**—Master and analytical data gets provisioned and gets shared through the Informatica Data Marketplace to various data consumers.