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.

Informatica Intelligent Data Management Cloud

Data Sources
- Social Media
- IOT
- Database
- CRM
- ERP
- 3rd Party Data
- Application Server
- Mainframe
- Apps

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.

Data Ingestion, Data Integration, Data Preparation
- Curated data gets provisioned as needed for data science/AI projects or integrated for cloud data warehousing.

API and Application Integration
- Connect to various applications and automate end-to-end business processes through API management.

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.

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.

Data Provisioning, Data Marketplace
- Master and analytical data gets provisioned and gets shared through the Informatica Data Marketplace to various data consumers.

Artificial Intelligence & Machine Learning Enabled Automation (CLAIRE®)

Informatica Cloud Services