Power your Cloud Data Warehouse/Data Lake with IICS

Shiv Patel

Principal Customer Success Technologist



Agenda

1 Cloud Data Warehouse/Data Lake Blueprint

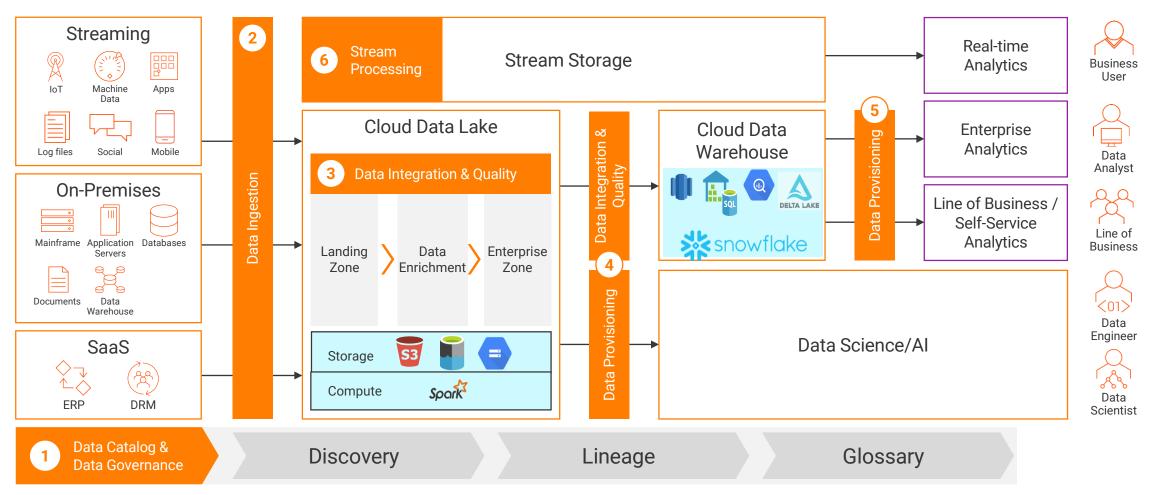
2 IICS Services

3 Cloud Data Integration

4 Demo



Blueprint for Cloud Data Warehouse/Data Lake

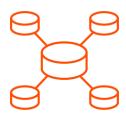




Cloud Data Warehouses and Data Lakes to Enable Analytics and AI in the Cloud







Data Warehouse













Cloud Lakehouse Data Management Pillars

DATA INTEGRATION



- Codeless integration
- Mass ingestion for files, DB and streaming
- Push down optimization
- Serverless and elastic scaling
- Spark-based processing in the cloud
- Broad connectivity
- Stream processing
- MLOps

DATA QUALITY



- Data profiling
- Data quality rules
- Dictionaries to manage values lists
- Cleansing, standardization, parsing, verification and deduplication/ consolidation processes
- Integrated into data integration
- Data quality analytics

METADATA MANAGEMENT



- Data discovery
- End-to-end lineage
- Metadata technical, business, operational, usage
- Connect and scan metadata databases (DW, DL), apps, ETL, BI tools and others
- Common metadata foundation

AI-DRIVEN AUTOMATION

CLOUD NATIVE

Multi cloud • API driven • Microservices • Containerization • Serverless architecture • Minimal install and setup • Auto-upgrades Usage-based pricing • Trust certifications



Informatica Intelligent Cloud Services











DATA INTEGRATION



CLOUD DATA INTEGRATION



CLOUD DATA QUALITY

METADATA MANAGEMENT



ENTERPRISE DATA CATALOG

CLAIRE

MONITOR AND MANAGE

DATA ENGINE

CONNECTIVITY

INFORMATICA INTELLIGENT CLOUD SERVICES (CLOUD NATIVE)







































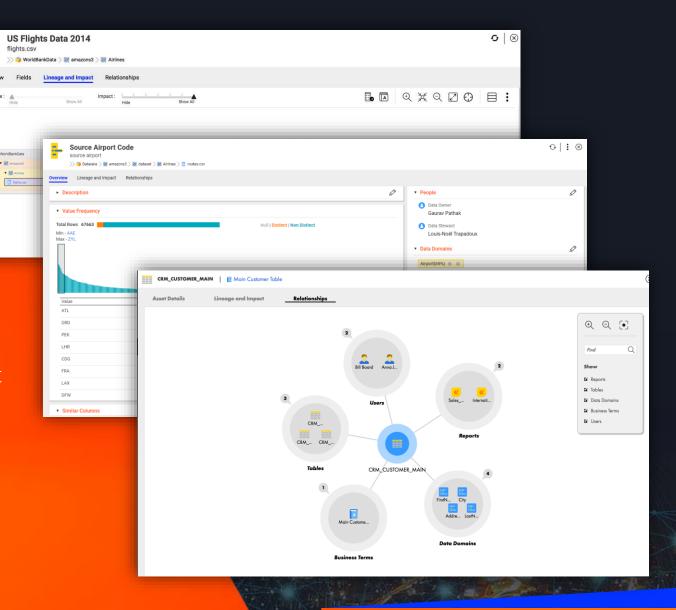






Intelligent Metadata Management

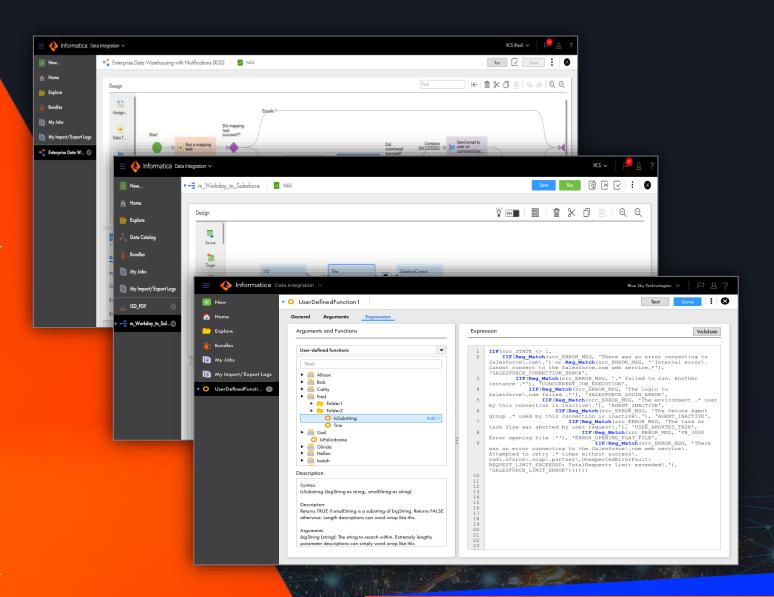
- Catalog all of your data across multi-cloud, on-premises, ETL, BI tools, and applications
- Quickly find and understand your data using AI/ML
- End to end data lineage with change impact
- Collaborate and tap into shared data knowledge across the enterprise
- Support all business use cases with integrated solution
- Scale to support tens of millions of data objects
- Intelligently link business terms to the technical data estate
- Automatically understand lineage of data across the organization



Enterprise Data Catalog

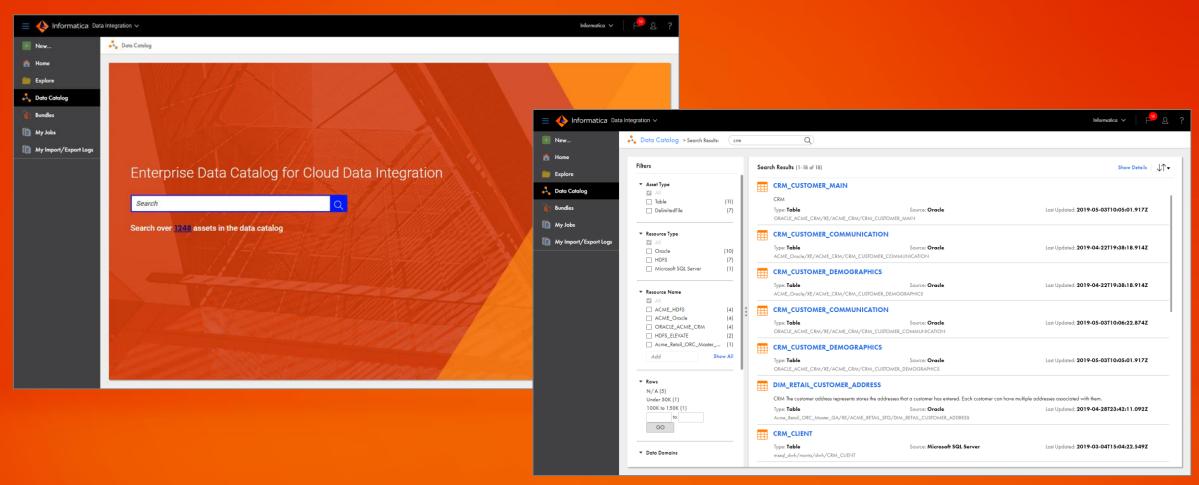
Data Integration

- Build simple to complex data integration loads using a mapping designer with out-of-the-box advanced data integration transformations.
- Connector support for any data type or any pattern (ETL or ELT)
- Support of Mass ingestion of any formats- files, databases, CDC or streaming
- Automatically discover any data type
- Intelligent transformation recommendation
- Serverless execution mode
- Auto tuning, auto scaling of DI jobs for greater performance & cost saving
- Heat map view of the jobs to identify critical times and peak hours for better resource planning.



Cloud Data Integration

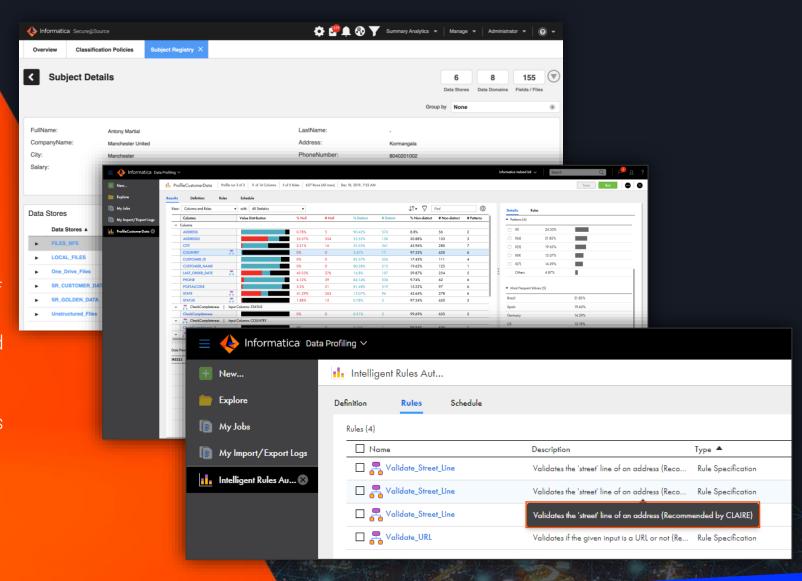
Integrated Data Discovery





Data Quality

- Ensure trusted data for CDW/DL
- Empower self-service and business ownership
- Identify and prioritize data issues
- Intelligent discovery and classification of various domains including sensitive data, across structured and unstructured sources
- Intelligent rule recommendations
- Build once and re-use everywhere across cloud and on-premises
- Natural Language Processing (NLP) to auto generate data quality rules
- Automate data quality assessment and reporting across all sources
- Embed DQ processes with Cloud Data Integration

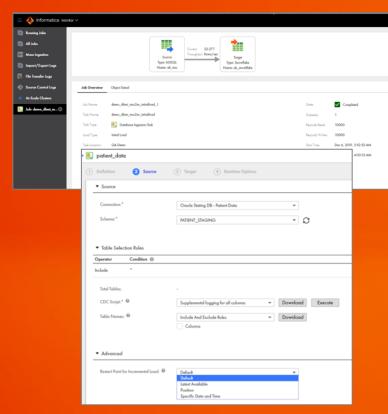


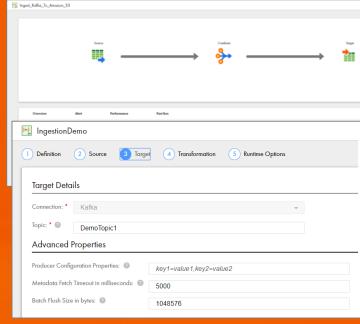
Cloud Data Quality

Ingest Data from Database, Streaming, Files

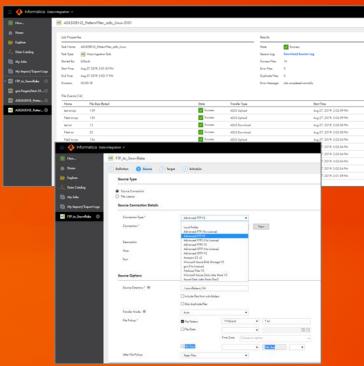
Streaming Ingestion Task Database Ingestion Task File Ingestion Task STREAMING INGESTION

DATABASE INGESTION





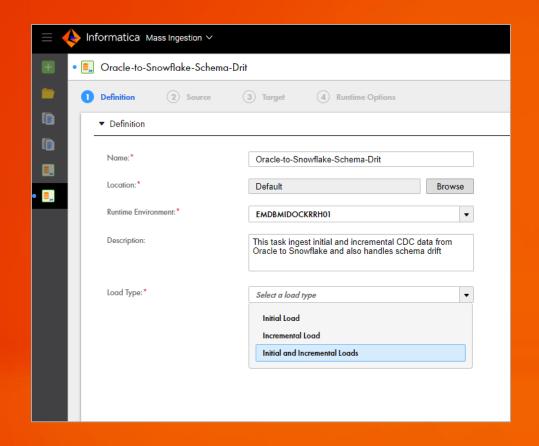
FILE INGESTION

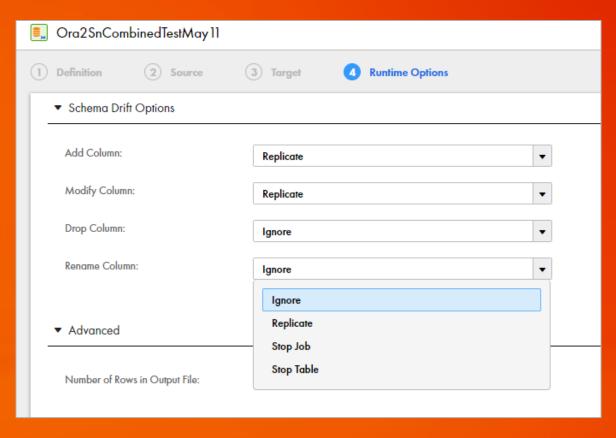


Cloud Mass Ingestion



Change Data Capture (CDC) from Databases & DW's







Cloud Data Integration

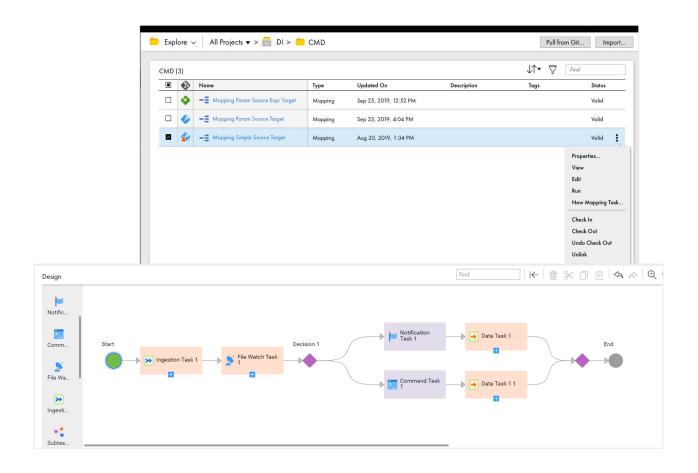
Enterprise Class + Developer Productivity + Operations

Enterprise Unified Metadata Intelligence - CLAIRE**



Enterprise Class

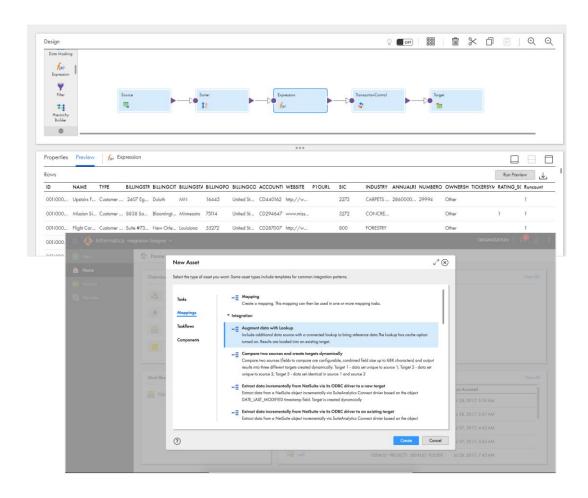
- One-click integration with GitHub for all source control needs
- Extensive transformation capabilities without any need for hand-coding
- The ability to automate and orchestrate all your integration tasks easily using the taskflow designer
- Options to choose the best runtime for your jobs with support for onpremises and cloud runtimes





Developer Productivity

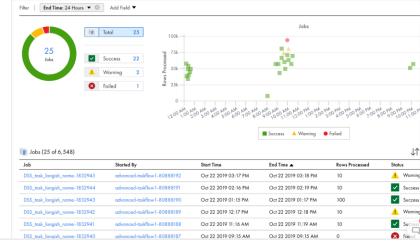
- Template and Wizard-Based Development
- Validate your mapping logic as you build with in-line data preview
- Build once and reuse business logic with the support for mapplets which are user-defined functions
- Jump start your integration projects with outof-the-box templates available for common data warehousing patterns
- Turn your mapping into a template with parameters and promote re-use and consistency across business units

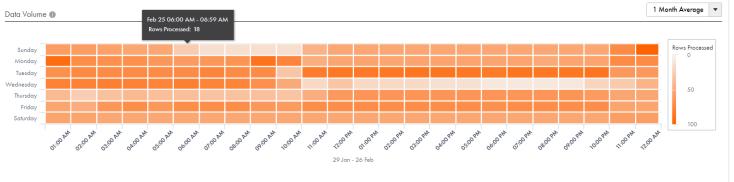




Operations

- Consolidated service to monitor infrastructure (on-premises/cloud) and all your jobs and connections
- Identify and spot trends with historical data and visual analytics
- Configure alerts to monitor and pro-actively respond to job and infrastructure failures







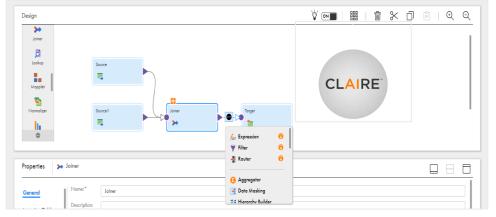
Cloud Data Integration

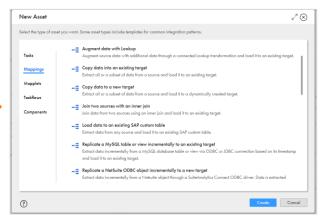
Step up performance of your data integration and data warehouse

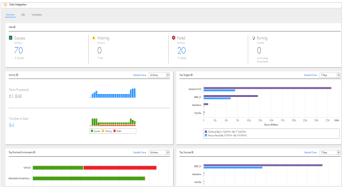
Build business processes with flow wizards, integration templates and Al-driven recommendations

High-performance loading with advanced partitioning and pushdown optimizations

Visual dashboards to monitor and manage your integrations and infrastructure seamlessly

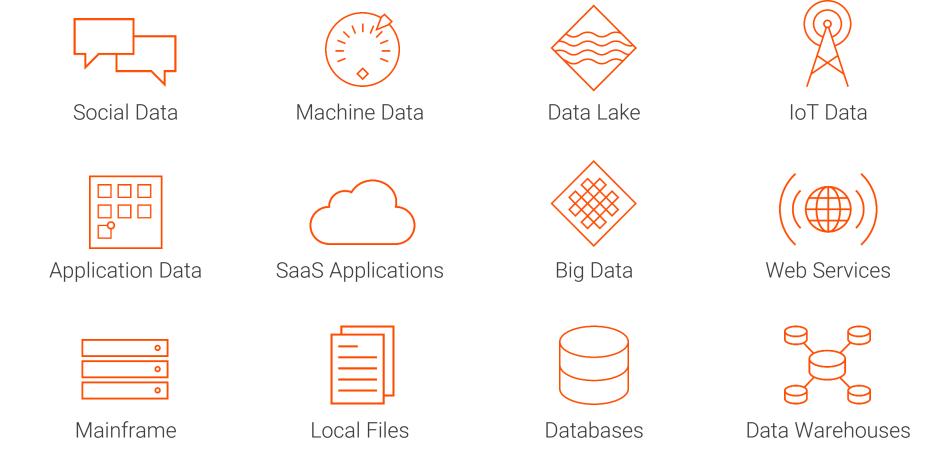






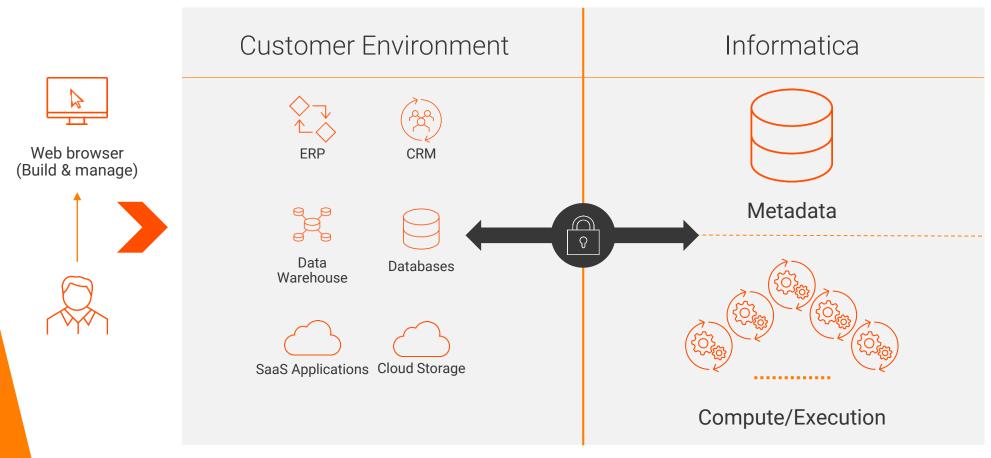


Plug-and-Play Connectivity to Any Data Type





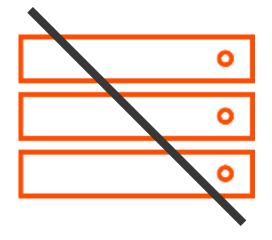
Serverless Integration (New!)



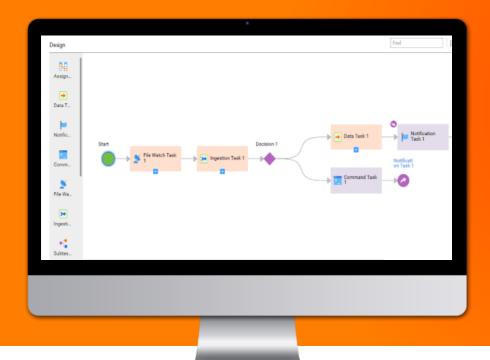


Serverless Integration (New!)

- No servers to manage
- Continuous scaling
- Built-in resiliency and highly available
- Elastic
- Consumption-based pricing







Demo



Summary

- Ability to easily integrate with any data
- Built in data quality rules
- Support for multiple patterns
- Integrated cataloging
- Flexible deployment
- CLAIRE[™]-powered recommendations

Please email your CSM or Account Manager if you are interested in trying out these products



Thank You

