Cloud Data Platform - Architecture Tenets

Cloud Data Architecture 2.0
- Decouple Data Storage and Processing
- Serverless Data Mgmt & Processing Architecture
- CDC, Streaming and Low Latency

Data Security First
- Data Security by Design - Not after thought
- Security in-grained Data Life Cycle (Classified & Tagged)
- SOD driven Data Security at Data Stores

Enterprise Data Platform
- Platformize: Data Stores, Pipelines & Data-Sec-Ops
- Data Lake as Foundation for Enterprise Data
- Platform for Data Democratization

Analytics & Machine Learning
- Cloud native Data Visualization and Dashboards
- Self-service for BI
- Raw Data for Ml & AI
- ML Ops Foundation

Data Governance Focused
- Bottom-Up Ownership
- Data Quality – KPIs & Metrics
- Data Literacy thru Business Glossary & Data Lineage

Driving Operational & Cost Efficiency
- Leverage Pre-emptive compute & Cloud Storage
- Pipeline Test Automation
- Low Code & NoOps

Next Steps: A 3-Week Assessment

Detailed Migration Strategy : Complex data warehouses classified into logical chunks, highlighting dependencies, and provides robust migration strategy.

Granular Assessment : In-depth understanding & analysis of existing data warehouse ecosystem by deciphering complex data warehouse at granular level.
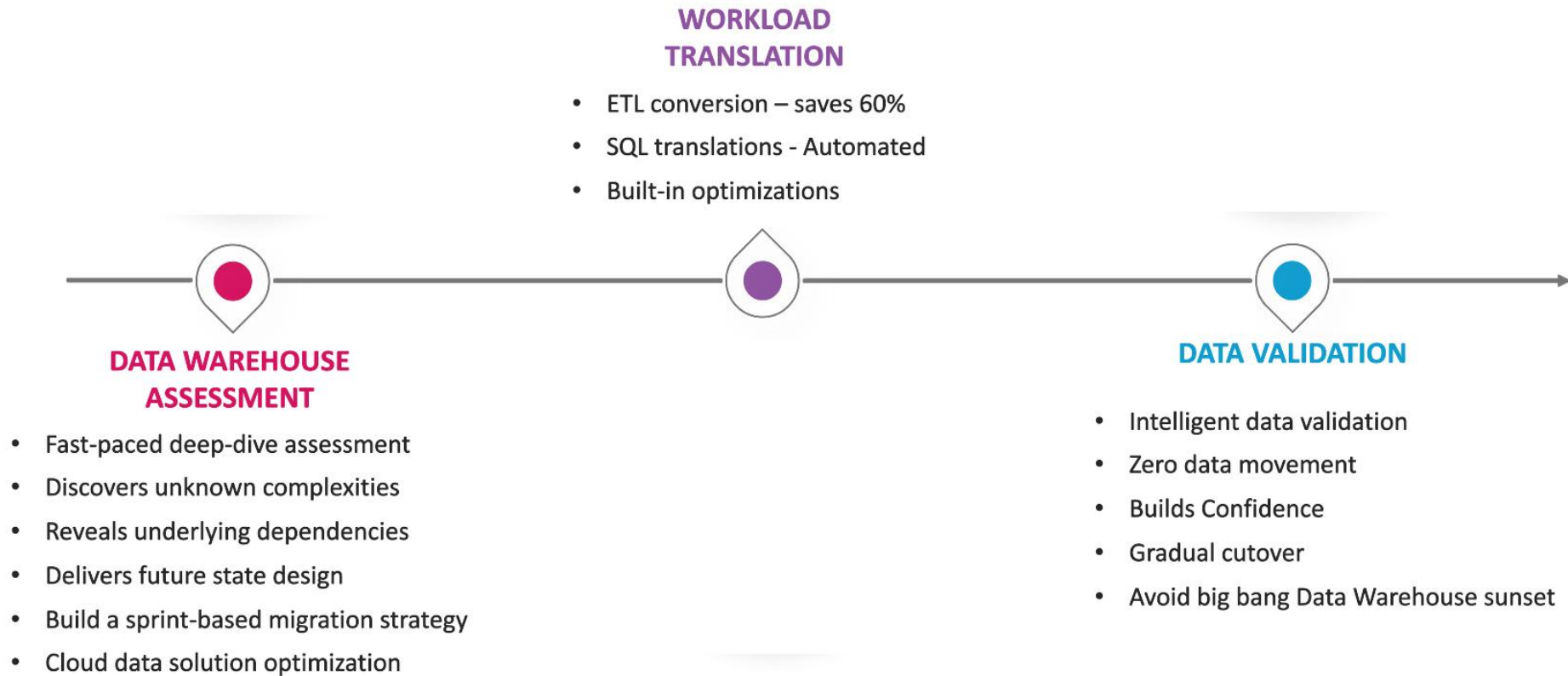
Fast-paced 3 weeks assessment : Automated assessment performed within weeks time.

Precise Reports & data model recommendations reveals time, scope & budget.

Simplify and Accelerate Migration with Tools

WORKLOAD TRANSLATION

- ETL conversion – saves 60%
- SQL translations - Automated
- Built-in optimizations

DATA WAREHOUSE ASSESSMENT

- Fast-paced deep-dive assessment
- Discovers unknown complexities
- Reveals underlying dependencies
- Delivers future state design
- Build a sprint-based migration strategy
- Cloud data solution optimization

DATA VALIDATION

- Intelligent data validation
- Zero data movement
- Builds Confidence
- Gradual cutover
- Avoid big bang Data Warehouse sunset

Expected outcomes from Data Platforms

Faster Analytics
Insights in minutes
Separation of compute from storage

Secure
Secure Data and ensure compliance
Zero Trust Architecture

Lower Cost
Serverless Data Lake
Only pay for what you use

AI / ML Powered
Accelerate Machine learning Training and deployment

Ease of Operations
Spin up Data Processing Clusters in Seconds

Resilient
Self-Healing, Lower MTTR