



DataNexus

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Description:

- “DataNexus” is a rapid implementation accelerator empowering Enterprises for Data Lakehouse implementation. Enterprise grade Data Lakehouse implementation is often time consuming, complex, fragmented and expensive.
- Using “DataNexus”, enterprises can accelerate their data driven journey by deploying Enterprise Data lakehouse solution, in as little as 2 weeks compared to traditional approach which typically takes around 6 - 8 months.
- “DataNexus” is tried and tested, metadata driven, configurable, readily deployable, robust framework which significantly reduces the time, cost and effort of the Data Lakehouse implementation life cycle

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Problem Definition:

Enabling a data driven enterprise through central data repository implementation is often

1. Complex – High Variety - Multiple data formats (structured, semi and unstructured data such as audio, video etc..) and high volume (Several Hundreds of TBs / PBs).
2. Longer implementation duration of 6-8 months.
3. Expensive and effort intensive.
4. Higher Maintenance costs.

Problem Solution:

1. Data driven enterprise can be enabled through Central Data Lakehouse solution.
2. Our "DataNexus" which is an Enterprise Data Lakehouse accelerator is tried and tested, domain agnostic, metadata driven, configurable, readily deployable, robust framework which significantly reduces the time, cost and effort of the Data Lakehouse implementation life cycle in under 2 weeks.
3. Its innovative approach leverages the power of cloud services to automate and streamline Data Lakehouse creation.
4. "DataNexus" framework is capable of ingesting and storing hundreds of GBs of varieties of data from multiple sources simultaneously.
5. The readily available code pack is rigorously tested with **100% code coverage** and hence reduces relevant testing / defect resolution efforts during implementation.
6. Customers can reap quicker ROI by fast tracking their data driven journey.

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Salient Features

Sl. No.	Feature List
1	2 weeks deployment
2	Data driven decision making
3	Single source of truth at enterprise
4	Flexible for scaling in future
5	Easy maintenance
6	Supports variety of data formats (Structured/semi structured/unstructured).
7	Reusable framework

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Key Tenants

Lightning-fast data lake setup within 2 days

Terraform based deployment with minimum clicks helps in significant effort and schedule reduction from traditional data lakehouse setups which usually takes 6 months

Proven & Tested Asset @ Leading Global Firms

DataNexus is live in production at leading firms globally handling more than 100 GB of data per day

Automated File Validation

Automated validation ensures integrity of the data lake to the pre-defined rules

Medallion Architecture

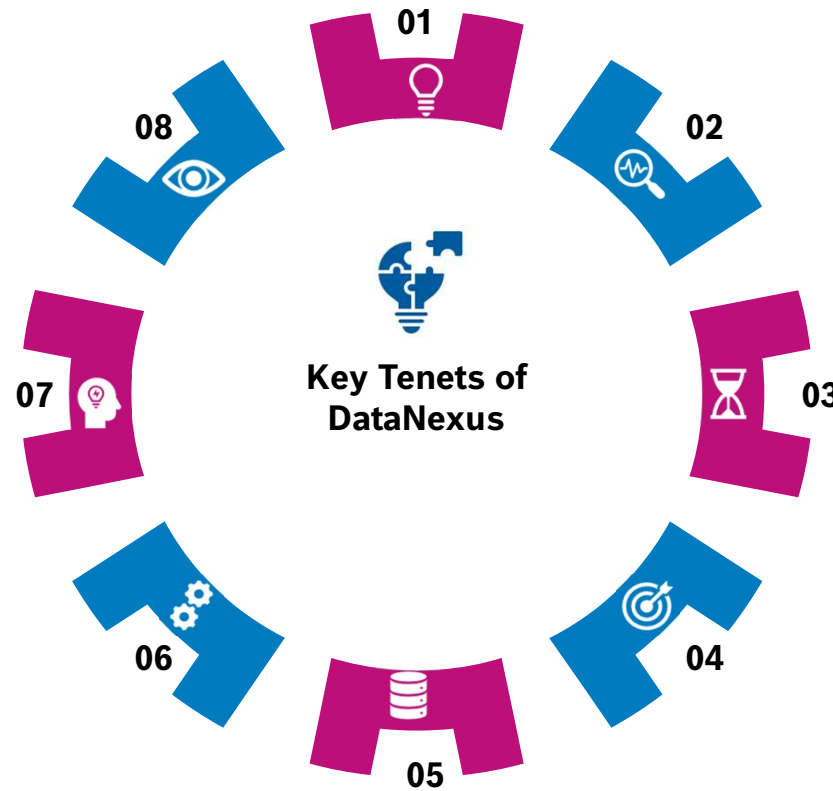
Layered architecture ensuring filtering of data at multiple levels ensuring refined data for analytics

TARA, Penetration Test Certified

Certified with Threat with Risk Analysis Assessment and Penetration Test Analysis

Invention report

Submitted invention report for the DataNexus accelerator having metadata driven Data Quality checks



Configurable Data Quality Framework

Metadata driven Data Quality Framework (DQF) ensures data quality.

Pre-defined housekeeping jobs

Automated jobs for data cleanup, archiving, and log management

Compatible on cloud

Tried and tested framework over leading hyperscalers such as AWS and Azure

Sandbox zone

Ensure newer applications can be explored

Reconciliation Reports

Reconciliation reports provide a single pane of glass view of different data platform operations

Configurable data Ingestion

Configurable data ingestion ensures easier data onboarding.

Monitoring

Configurable Monitoring alert and Notification

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