



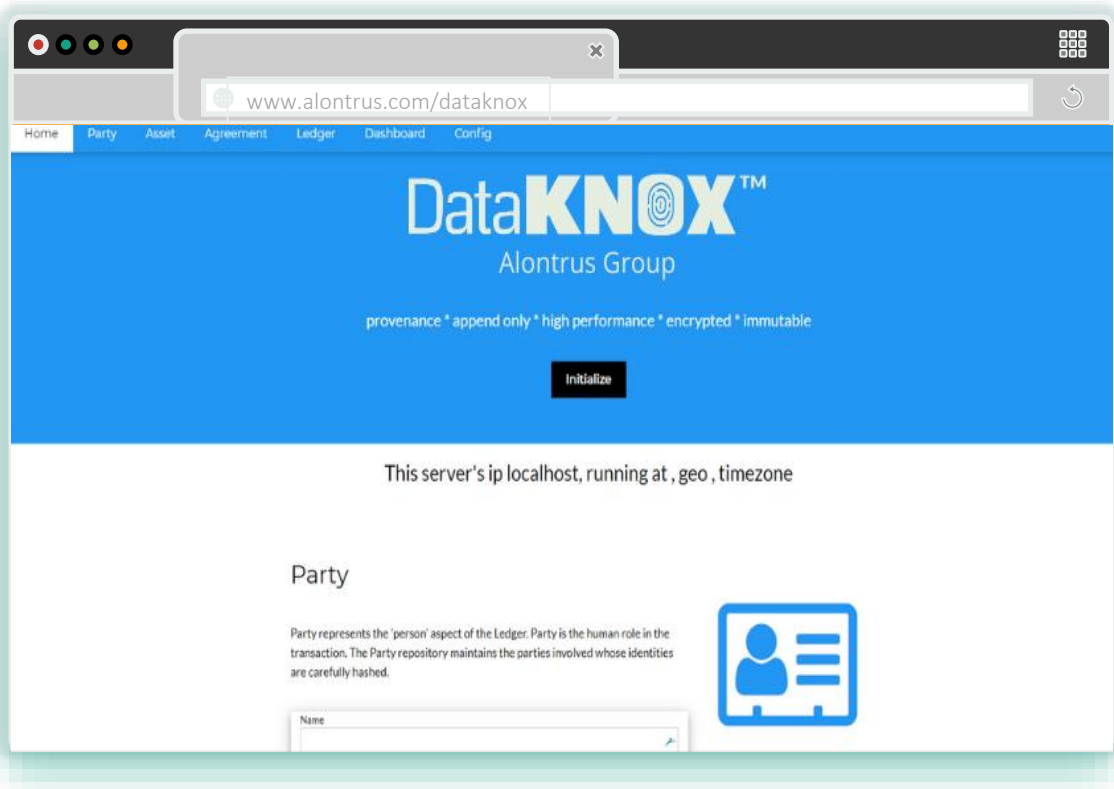
Data**KNOX**™

Product Overview

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About DataKNOX™

PROVENANCE / ZERO-TRUST / APPEND ONLY / IMMUTABLE / HIGH PERFORMANCE



DataKNOX™ is an open-source, self-propagating, broadcasting, immutable, append only distributed ledger(DLT), designed to transport your most sensitive data to the cloud.

It possesses the properties of Blockchain without being a Blockchain and built using Flow Programming. As you move from one end point to the next, decisions are made just like business process automation.

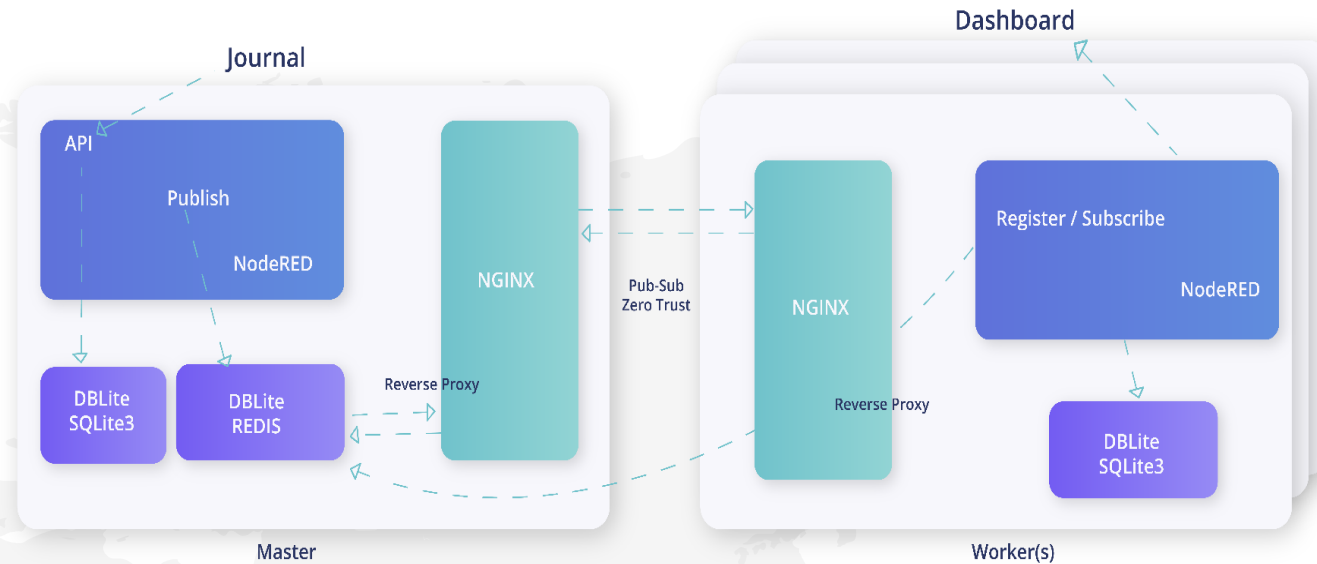
DataKNOX™ is not ML or AI, but you can utilize concrete logic. Most of **DataKNOX™** is based on concrete logic to introduce business rules into the process itself.

The Problem

- **Moving data** in a highly secure fashion from an on-premise legacy system to a cloud-based system is the modern challenge.
- **Most migrations** are too expensive.
- **Tools and knowledge are limited**, and execution can take an exorbitant amount of time.
- **Data Transportation Services** are complicated and costly
- **Network Mishaps and Data Breakages** occur as information increases.
- **The Underserved Segment** of data transportation and distribution pay a premium

Benefits

- **It can reduce overhead costs** for both infrastructure and personnel.
- **Can be used as a real time method** of transporting the critical data in legacy systems to the cloud where you can perform analysis with all the tools cloud systems provide.
- **Provides** a decentralized, immutable, append only database with providence.
- **A government agency that manages public records** can demonstrate that all encumbrances are attached to a deed.
- **Users can create and maintain multiple networks** with multiple channels (Smartphones, Internet, IoT devices) in a highly secure environment.
- **The small footprint** of DataKNOX™ reduces data and security volatility.



- **As the ledger expands** immensely, the DataKNOX™ cold storage mechanism pushes older data into vaults, keeping the nodes and network at new state efficiency.
- **Users can conveniently add journals** to the ledger 'lake'.
- **Multiple copies minimize data corruption** or accidental deletion risks
- **Request ad hoc queries** at any point in the lifecycle of the ledger
- **Conveniently** audit, track, manage and reconcile ledger entries using 'analytics'

Features & Future Releases

Features

- Connects to DAML (Financial Transaction Language)
- Tested on Linux instances w 60,000 TPM
- Minimum specifications (512K RAM, 8 GB HD, 1-2 (V) CPU-S)
- Append-Only Ledger is stored in an encrypted, embedded database that can span multiple volumes in Petabytes.
- Reconciliation - An extension of the core product.
- Tested across nodes situated 25,000 miles apart. Zero latency in publish-subscription.
- Fully configurable for different use-cases
- Data at rest, in motion and in transient - is fully encrypted with SHA-512.
- High speed edge network transfer through REDIS, Kafka-Zookeeper, and Hedera Pub-Sub.
- REST API for all known functions.

Future Releases

- Fine-grained business rules. Example: Party 1 is not allowed to transact more than USD \$1000 at any one time.
- Fine grained access control. Example: Party A, B can see the reconciliation report, but Party C cannot.
- Streaming publication and subscription for large volume transfers.
- File attachments to the ledger journals (Ex. PDF Files)
- Reconciliation extension will include all nodes.
- Extended to include secure chats and other communications.
- Code generators for UI – React, Angular and Vue.



Demo

