# fluree™

# Running Fluree in Production on Nexus

Fluree Nexus provides an attractive alternative to self-hosting Fluree in your own cloud or datacenter environment. Fluree Nexus provides 24x7 monitoring, upgrades, backups and auto-scaling with built-in API access. In addition, Fluree Nexus provides an easy-to-use management console to share permissions, launch new ledgers, monitor usage, and manage access keys.

## FOCUS ON INNOVATION, NOT MANAGING OVERHEAD

Fluree Nexus provides a hosted production environment so that you can focus on building great technology, not on managing infrastructure. Fluree specially configures and manages an environment that takes advantage of its unique horizontal scaling capability, enabling a truly dynamic infrastructure ready to take on the toughest traffic spikes. An easy to use UI allows simple exploration of Fluree's unique data provenance features and explore data with visualizations.
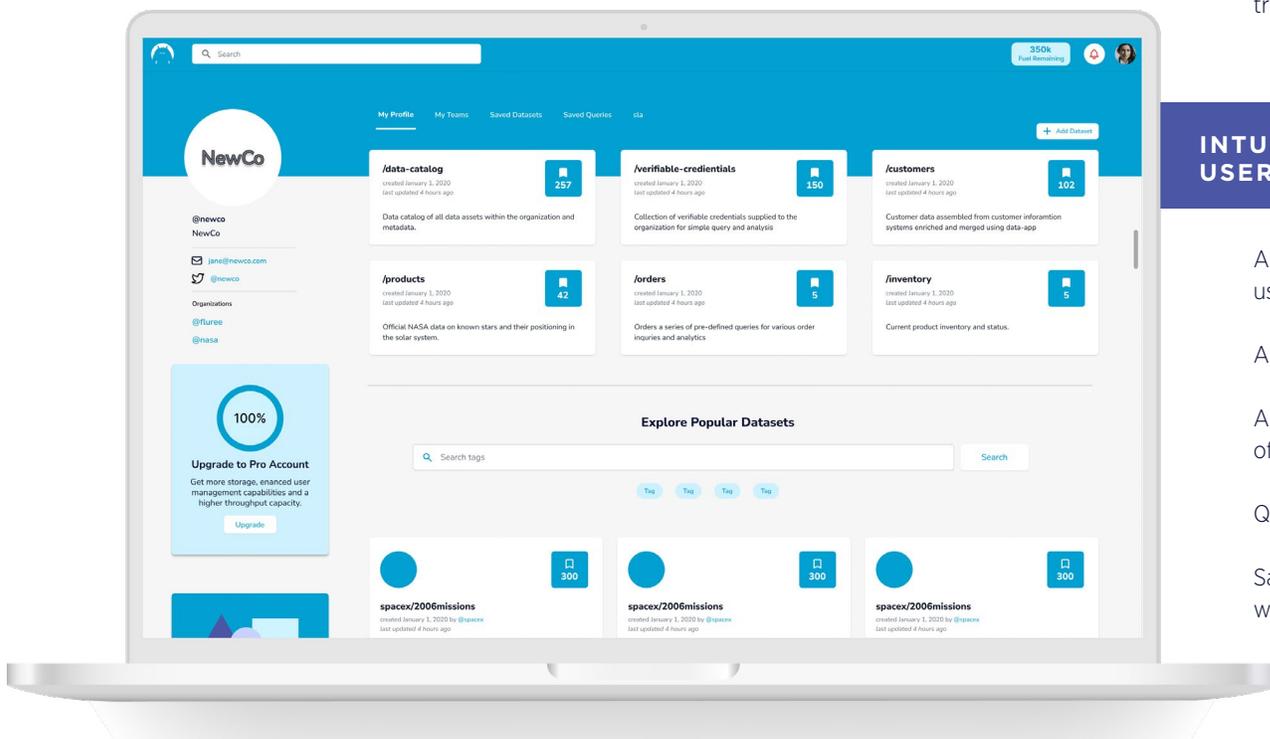
## INTUITIVE & POWERFUL UI

Easy-to-use management console to share permissions, launch new ledgers, monitor usage, and manage access keys.



## KEY FEATURES

Upgrades and Backups

Auto-Scaling Query

24x7 monitoring & SLA

Built-In API Access

Detailed Usage Metrics

Redundant transactors with auto-failover & triplicate data

## INTUITIVE & POWERFUL USER INTERFACE

Authorized user management

API key management

Audit trail of every transaction

Query & visualize data

Save and share queries with team

## FLUREE NEXUS RUNS FLUREE CORE

Fluree Nexus runs Fluree Core under the hood, enabling full access to Fluree's powerful capabilities. Features like programmable governance (data defending itself), linked-data standards, powerful queries in graph, relational, or document (SPARQL, SQL, GraphQL) are available to Nexus users in addition to some Nexus-only administration and collaboration capabilities. Databases backed by Fluree's immutable ledger technology can be managed as private (authorization-only) or made public.

The Fluree Nexus roadmap ahead is a powerful vision — Fluree Nexus will soon allow database merging, Google-like searching across datasets, a marketplace of "data-apps" including AI/ML, data integrations, and data sales.

## UNDER-THE-HOOD DETAILS

» *AES-256 encryption data at rest*

» *Minimum 3 Raft-consensus synchronized transactors with triplicate real-time data copies*

» *Additional ledger-level data backups*

» *API communication over HTTPs using ECDSA public/private key cryptography or HTTP-Signature*

» *Containerized auto-scale Fluree query servers with stickiness to maximize in-memory caching*

» *Enterprise support portal with SLA tracking and ticket collaboration*

» *GIT-like ledger history exploration, with point-in-time queries*

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