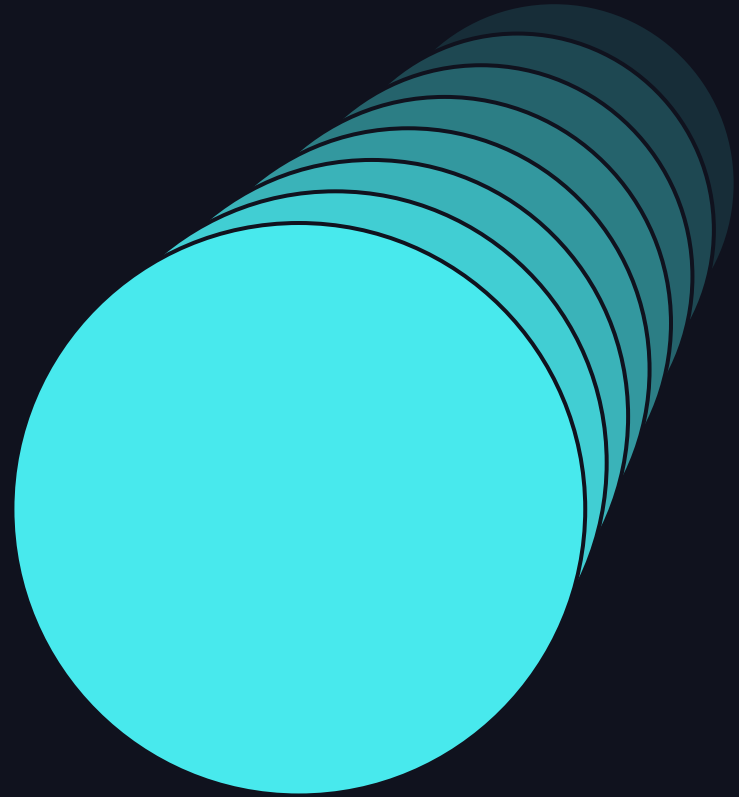


NASDAQ DATA LINK DELTA SHARING

Jamie Couture
June 2024

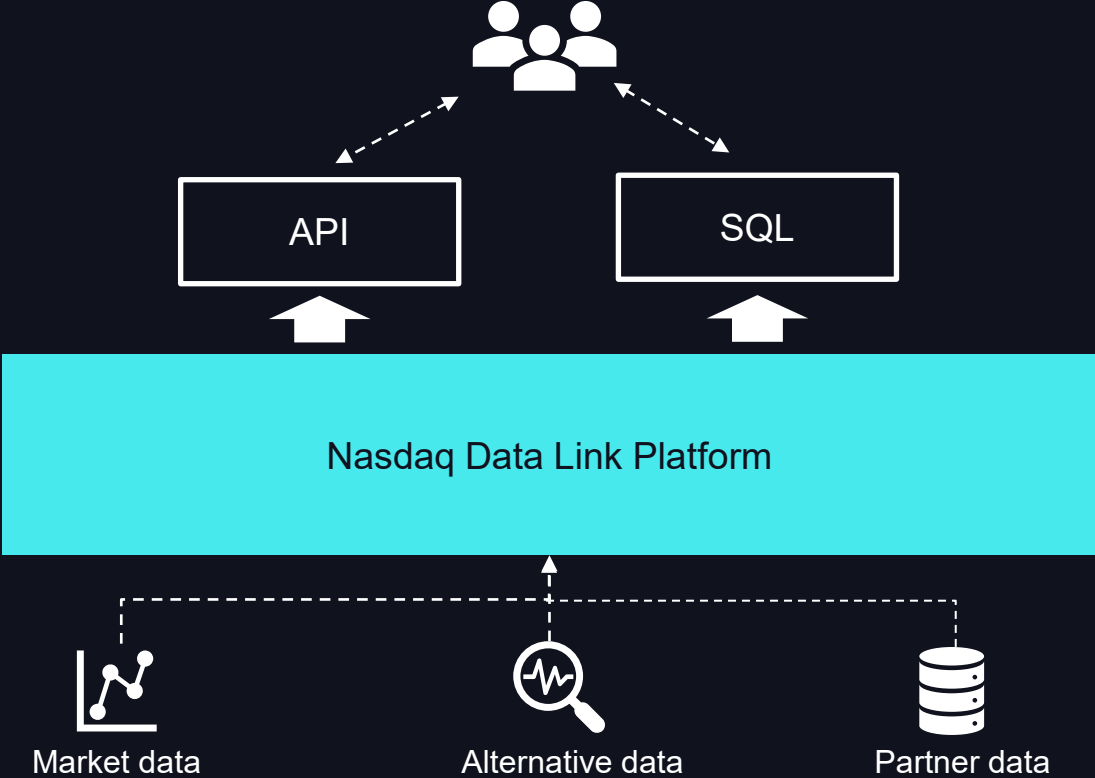


WHAT IS DATA LINK?



- Reach: 800+ users
- 300+ datasets
- Asset Managers, Hedge Funds, Investment Banks
- Data Scientists
- Academics

HOW DATA LINK DELIVERS DATA?



VALUE OF DELTA SHARING

The Problem



- Deliver large data sets (TBs) securely and efficiently
- Create scalable solution
- Reduce egress costs
- What did we try?
 - Generate csv archive / SFTP / S3

The Solution

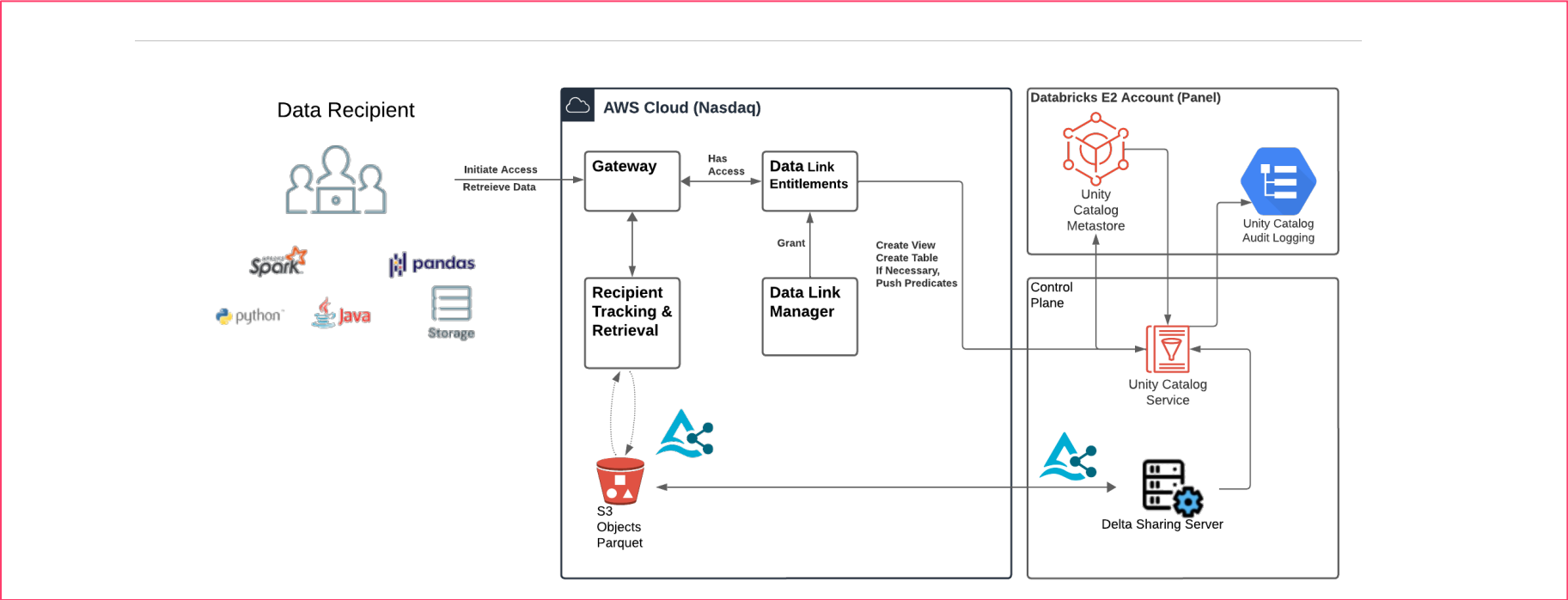


- Delta Sharing, customized for Nasdaq Data Link
- Open Source and Open Standard
- Scalable / API Based
- Built-in governance from Databricks
- Unified format

THE INTEGRATION LANDSCAPE

ARCHITECTURE

High Level – Delta Share to Open



BUSINESS REQUIREMENTS

Rate Limits

- Limit number of downloads
 - Daily Requests
 - Repeated Attempts
- Avoid noisy neighbours
- Reduce egress costs*

Commercial Considerations

- Usage-Based Billing
- Cannot use Requestor-Pays:
 - Not all customers are on AWS
 - Not supported: Delta Lake writes to Requester Pays buckets.

Resource Management

- Unity Catalog Limits
 - Table
 - View
 - Share
- Dynamic Row and Column Filtering
 - Predicates and Views

DEMO



bulk-download-demo