CryptoBridge Global@TH

Real-time & Batch ETL pipeline using **Kafka, Spark, HDFS, and BI dashboards**

Giorgi Kurtanidze

Levan Dalbashvili

Irakli kereleishvili

Problem Statement

TH

BINANCE

- Binance **stopped P2P trading in Thailand** → launched **Binance TH**
- Business wants to analyze **cross-border crypto transfers** from **BinanceGlobal** → **Binance TH**
- Goal: **insights on user behavior, volume trends, and fraudrisks**

TH

Who is Target Audience?

BINANCE

1. **Business Stakeholders / Binance TH Management**
2. **Risk & Compliance Teams**
3. **Product & Strategy Teams**

Data Sources

TH

BINANCE

Binance TH

Binance Global

Faker

BitKub

Script Configuration & API Rate Limits

Binance TH

Current Synchronous Approach:
🔄 **3 transactions/second** (configurable)
⚡ **Max practical rate**: ~10 tx/sec
🔄 **Single-threaded**: Sequential processing

Potential Async Scaling:
⚡ **Max rate**: 50-100+ tx/sec
🚀 **Multi-threaded**: Concurrent processing

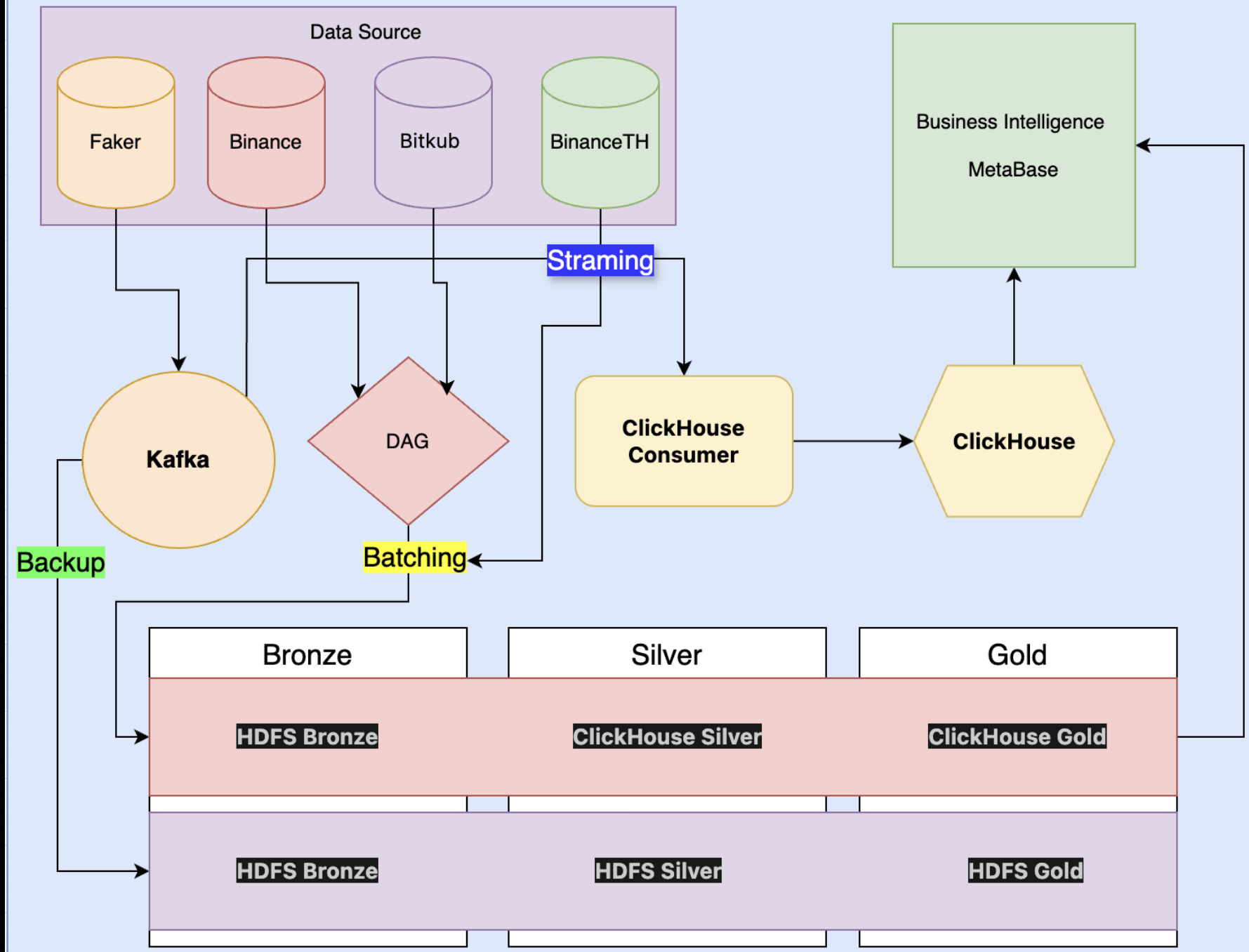
Binance

- **Data Range**: 365 days (1 year of historical data)
- **Symbols**: 6 total (3 Global + 3 Thailand)
- **Interval**: Daily klines (1d)
- **Batch Size**: 1,000 records per API call
- **Rate Limiting**: 0.5 second delay between requests

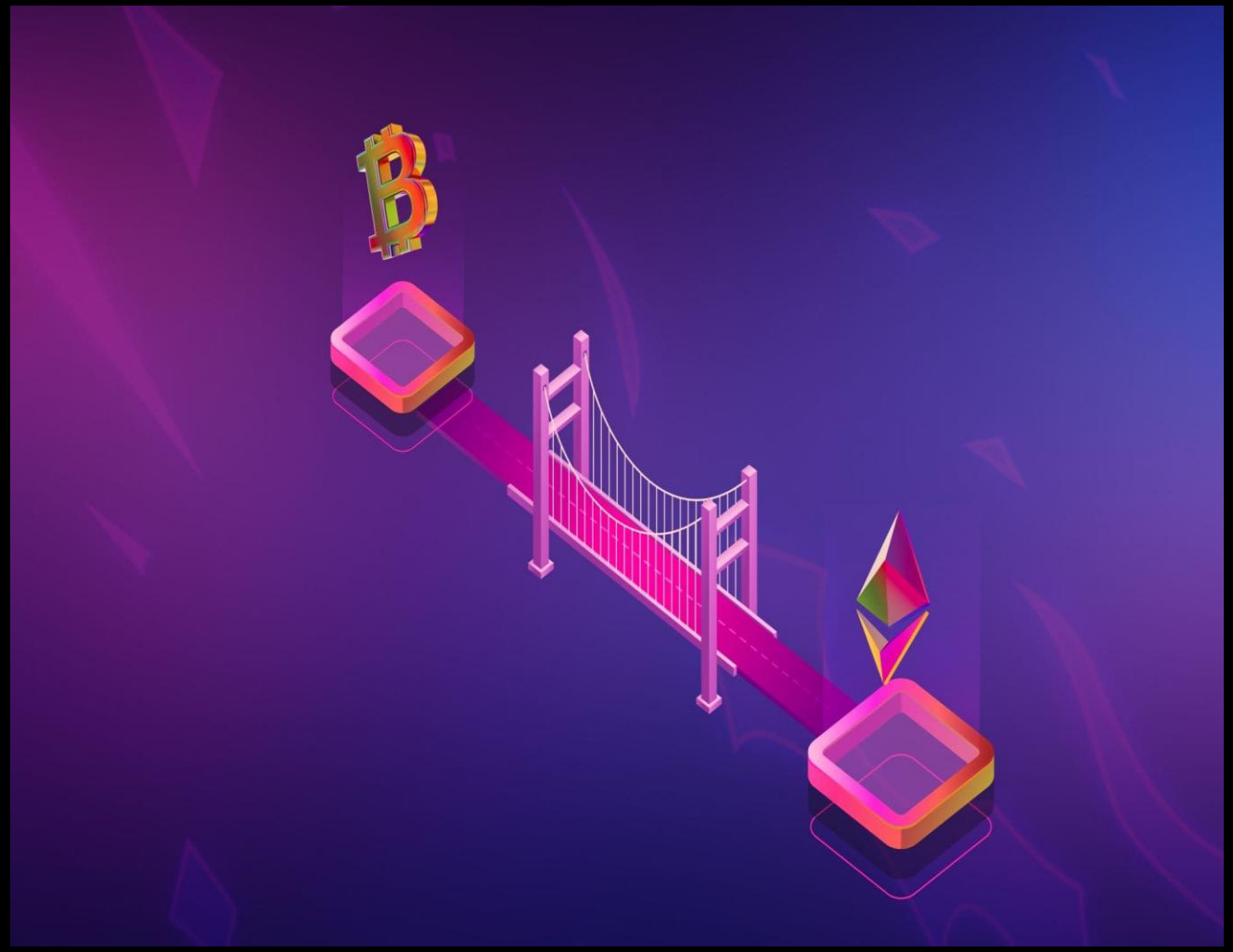
🚀 API Rate Limits

🏛️ Binance Global API:
- **Request Limit**: 1,200 requests/minute
- **Max Records**: 1,000 per request

TH Binance Thailand API:
- **Request Limit**: ~600 requests/minute (estimated)
- **Max Records**: 1,000 per request


Data Source
Faker
Binance
Bitkub
BinanceTH
Straming
Business Intelligence
MetaBase
Kafka
DAG
ClickHouse Consumer
ClickHouse
Backup
Batching
Bronze
Silver
Gold
HDFS Bronze
ClickHouse Silver
ClickHouse Gold
HDFS Bronze
HDFS Silver
HDFS Gold

TH

THANK YOU FOR YOUR ATTENTION

BINANCE