



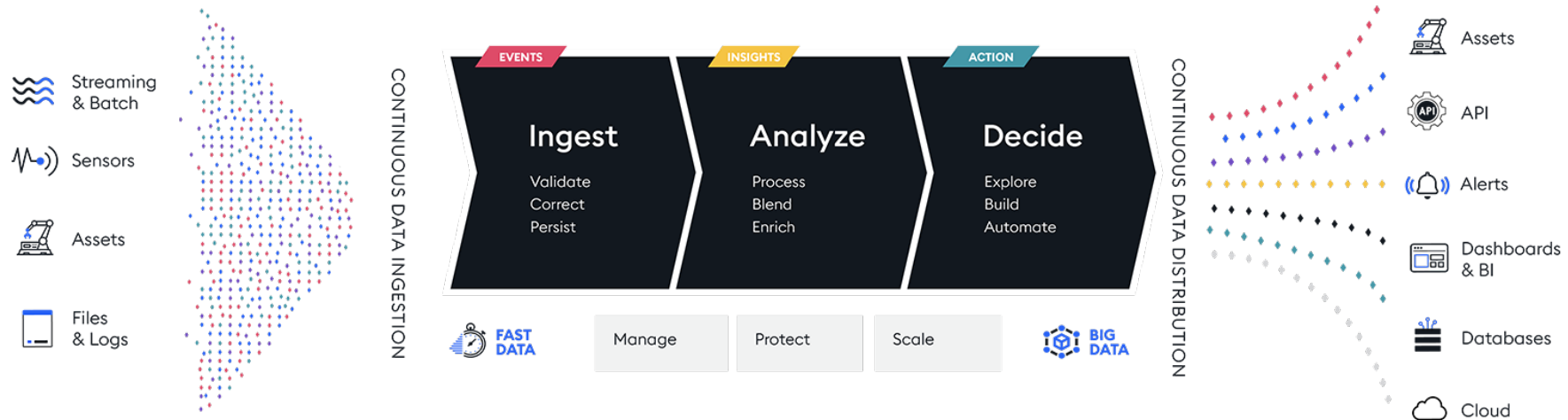
KX Streaming Analytics Platform & Time-Series Database

STAC Live, Spring 2021. Glenn Wright, Senior Systems Architect, KX



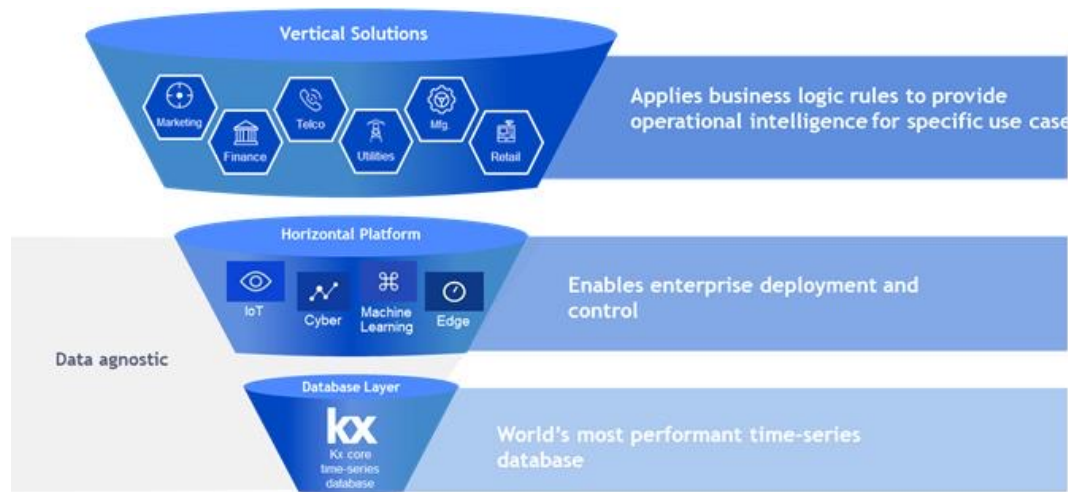
KX - Part of the Entire Data Lifecycle

Continuous Business Analytics



What is behind our STAC-M3 results?

- A high-performance integrated streaming analytics & time-series database platform
- An in-memory compute engine
- A real-time streaming processor
- Programming language (q) and expressive SQL like query language (qSQL)

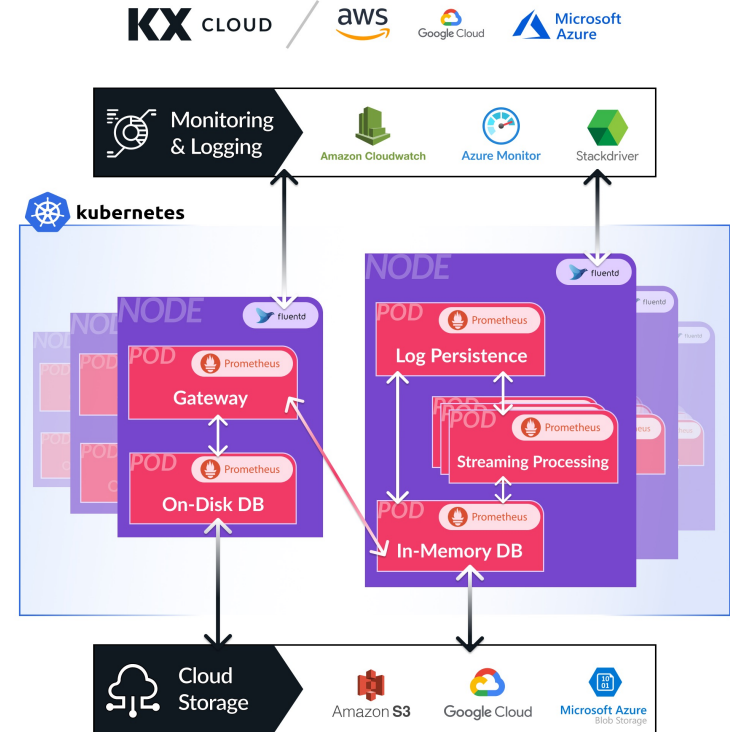


Major Advantages

- Extremely high performance vector/array based interpreted language
- Tiny footprint - executable is <1MB
- Expressive and functional
- Identical queries can run on streaming data, in-memory, or on-disk (performance considerations)
- Easy to maintain database
- Code lives close to data
- Hybrid relational database with Kappa architecture

KX Insights in the Cloud: Architecture

- Docker and Kubernetes Support - OpenShift certified
- AWS, Google, Azure Marketplace
- Cloud, Hybrid, On-Premises, and Multi-Cloud support
- Object store integration (S3, Blob, Google Cloud Storage)
- REST Client/Server with embedded authentication
- Compression and Encryption at rest and in transit
- AWS Lambda support



Ubiquity meets performance?

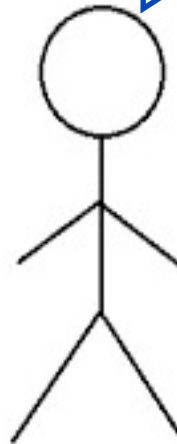


S3 Warehouse

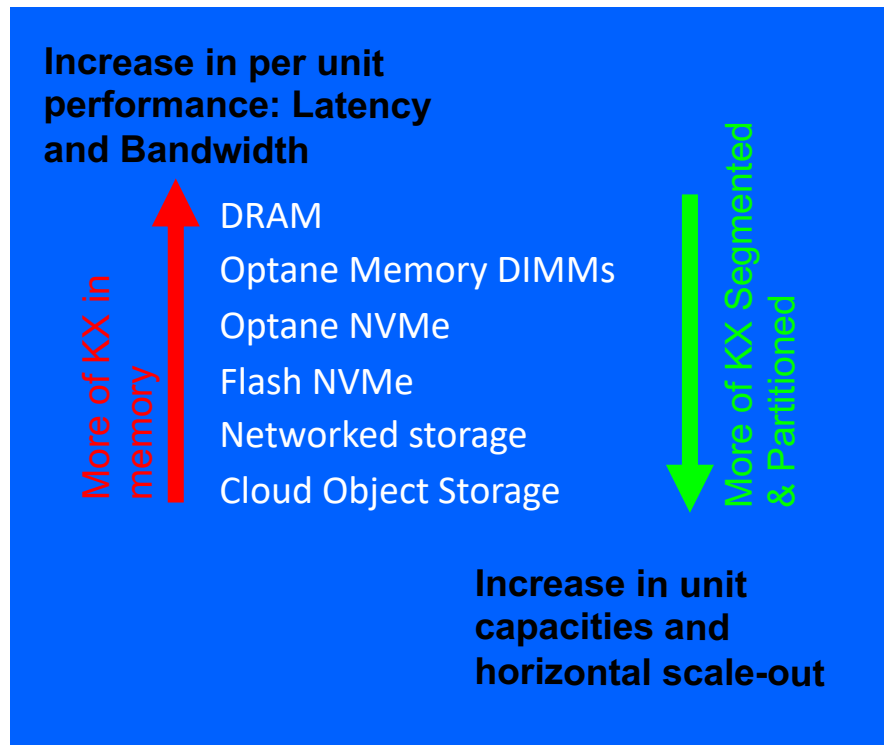
No access to
general public



Goodbye to that big
warehouse. Now I
just need to learn
REST...



KX Insights: CPU, Storage and Memory Namespace become one



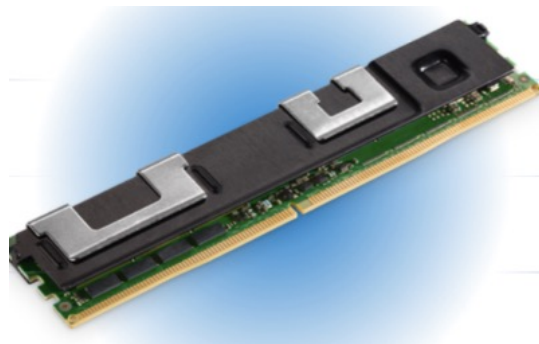
Identical queries can run on inbound streaming data, in-memory, or on-disk.

KX Insights uses namespace control to directly manage Intel Optane DIMMs as :

Storage over app direct (**STAC-M3 KDB200603, KDB201109 ...**)

Memory over app direct (RDB)

KX Insights directly addresses Object store key:value pairs within its internals



Thank You



Kxsystems



K

x



Kxsystems



- gwright@kx.com, or,
- Visit **www.kx.com** for more information

