

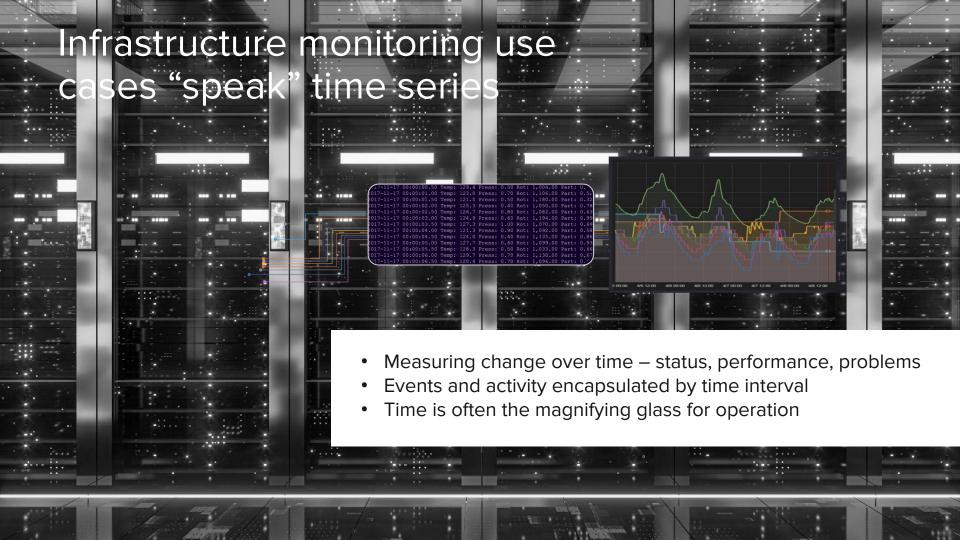
Infrastructure Monitoring



Agenda

- Challenges
- InfluxDB Overview
- InfluxDB for Infrastructure
 Monitoring
- Use Cases





Challenges with managing time series data

Massive Scale

Data is continuously arriving at high speed and volume

Real Time Action

Applications must analyze data within streams and act in real time

Data Cardinality

Higher number of tags collected cause high cardinality impacting performance



Most tools (including relational databases) simply cannot handle these challenges

Relational datastores are not a fit for purpose

- Scale Cannot ingest large
 volumes of data in short time period
- Slow queries Not architected for real-time querying
- Lifecycle management Sharding
 & data retention are not built-in



What makes InfluxDB Special

Uniquely equipped for time series data



Scale

Designed to scale for large volumes of time series data

Distributed

Non-blocking high volume writes and reads

Availability

Write and read availability are prioritized

Management

Data lifecycle management with built-in data retention

Flexible

Schema on write



InfluxDB 3.0: Columnar database for high performance & low cost



Real Time



Sub-second responses for recent data

Optimized for low latency **SQL** or InfluxQL queries



Lowest cost storage

Cold data in object store

Superior compression & reduced TCO

Optimized for lowest cost long term storage



Unlimited Cardinality

Optimized writes & reads

One datastore for all time series data

Optimized for ingest scale & speed



InfluxDB 3.0: an Open Data Architecture

Flight

Transport columnar data at high speeds based on Arrow format

DataFusion

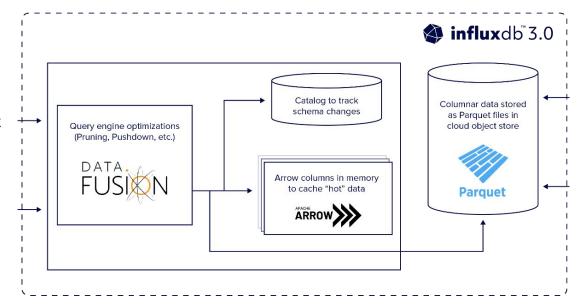
Fast query execution engine written in Rust

Arrow

Optimized for running large analytical workloads

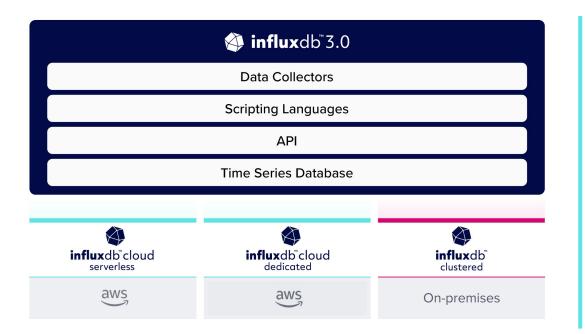
Parquet

Open column-oriented file format designed for efficient data storage and retrieval





InfluxDB 3.0: Run on cloud & on-premises



Cloud Serverless

managed service for small & medium workloads

Cloud Dedicated

 managed service for large enterprise workloads

Clustered

 software for large enterprise workloads in self-managed environments

^{*} We strongly encourage that customers evaluate the InfluxDB Edition that is desired for production

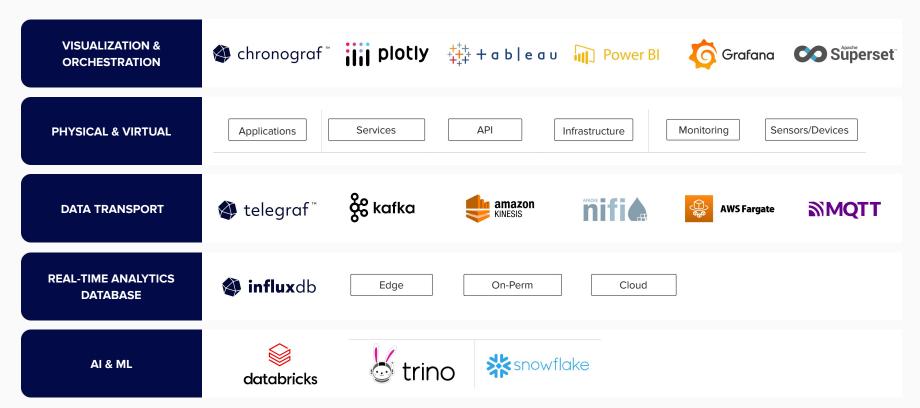
InfluxDB for Infrastructure Monitoring

Why InfluxDB for Infrastructure Monitoring?

- Manage high cardinality data across thousands of devices and interfaces
- Reduced operational complexity by consolidating data sources into one unified view
- ✓ Anomaly detection and faster troubleshooting with real-time access to granular data
- ✓ Reduced total cost of ownership (TCO) by storing data efficiently with high compression rates



Partnerships & Integrations



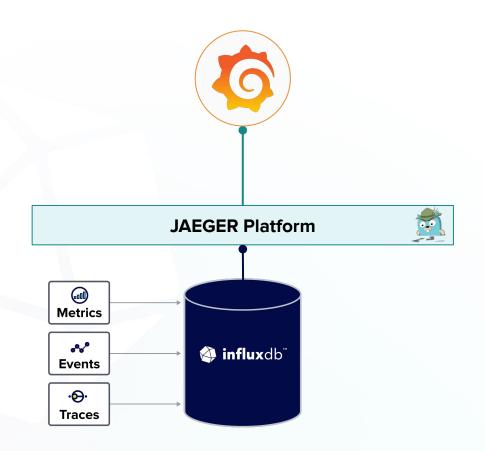


Jaeger Compatible

Jaeger: open source, distributed tracing platform. (Originally built by Uber)

InfluxDB 3.0 is a compatible remote backend store for Jaeger. This means InfluxDB can be bolted to your current trace infrastructure.

https://killercoda.com/influxdata/course/demos/otel





Customer Use Case

Data Center Solution



Problem:

Unable to collect and analyze data center metrics into a centralized TSDB. Resulting in lack of real time access to data center heath and a single time series data pipeline for advanced analytics (ML/AI)



InfluxDB Value:

Able to see data center metrics in a single pane to begin analysis high volumes of data across multiple sites



Advertising Service

Problem

Infrastructure monitoring crashes during high traffic events like the Superbowl which directly impact their revenue.

InfluxDB Value

- Availability and horizontal scaling issues solved for the 96 databases that store their monitoring data
- High performance querying even with cardinality in their dataset at 8M





Useful Links

InfluxDB 3.0

Request a Proof of Concept

sales@influxdata.com