InfluxDB on Amazon Web Services

Accelerate decision making with actionable time series insights

Collect, store, and analyze market data with a purpose-built time series database

Piecemeal databases can't keep pace with time series data

Time series data underpins a number of workloads in capital markets, including back-testing, stress testing, transaction surveillance, anomaly detection, algorithmic trading and forecasting. Many firms attempt to realize this value by using a piecemeal solution leveraging traditional relational databases that are not built to effectively manage time series data. The volume and velocity of time stamped data in capital markets calls for a purpose-built database designed to exploit time series data, providing a fast ingestion rate and the ability to view data over time using built-in functions for quick, continuous query and flexible time aggregations. The scale and computing power required to gain meaningful real-time insights in capital markets makes a cloud offering an optimal solution to satisfy these use cases.

InfluxDB on AWS: Purpose-built for time series data

InfluxDB on Amazon Web Services (AWS) is a serverless time series data platform, purpose built to meet the specialized requirements of today's time-sensitive workloads. This time series platform enables thousands of organizations globally to build time series driven applications at scale and is up to 100-times more powerful than non-specialized time series databases.

Developed as an open source platform, InfluxDB on AWS comes with over 250 Telegraf plugins and a set of powerful client libraries that make it easy for users to ingest data from anywhere. Plus, it comes with a simple and powerful query language, making it easier to uncover actionable insights. By running InfluxDB on AWS, you can focus on building apps and not managing clusters with a scalable, resilient and secure time series platform.

Uncover actionable financial insights in nanosecond precision

More than a database
Purpose-built for time series data – business transactions, infrastructure health, application performance and service adoption metrics.

Delivers high performance
The solution is optimized to handle large volumes of metrics and events data from thousands of systems, sensors or servers.

Finds value in your data
Stay ahead of the curve by identifying patterns, forecasting, controlling systems and turning insight into action.

How InfluxDB on AWS unlocks value from time-stamped data for capital markets

Financial services organizations are rapidly adopting big data and analytics technologies to inform investment decisions and deliver more value to their customers. InfluxDB provides observability across a number of data sources and helps you create actionable insights in near real time. These capabilities unlock several use cases that can help you transform operations in capital markets.

Streaming real-time market data

The sheer volume and speed at which market data is created makes it difficult to actively manage. In order to keep pace with ticker data, organizations need stream processing – a big data technology that processes data as it arrives in order to provide nanosecond speed insights. InfluxDB on AWS allows organizations to ingest, store and process real-time market data to accelerate decision making.

Accurate market forecasting

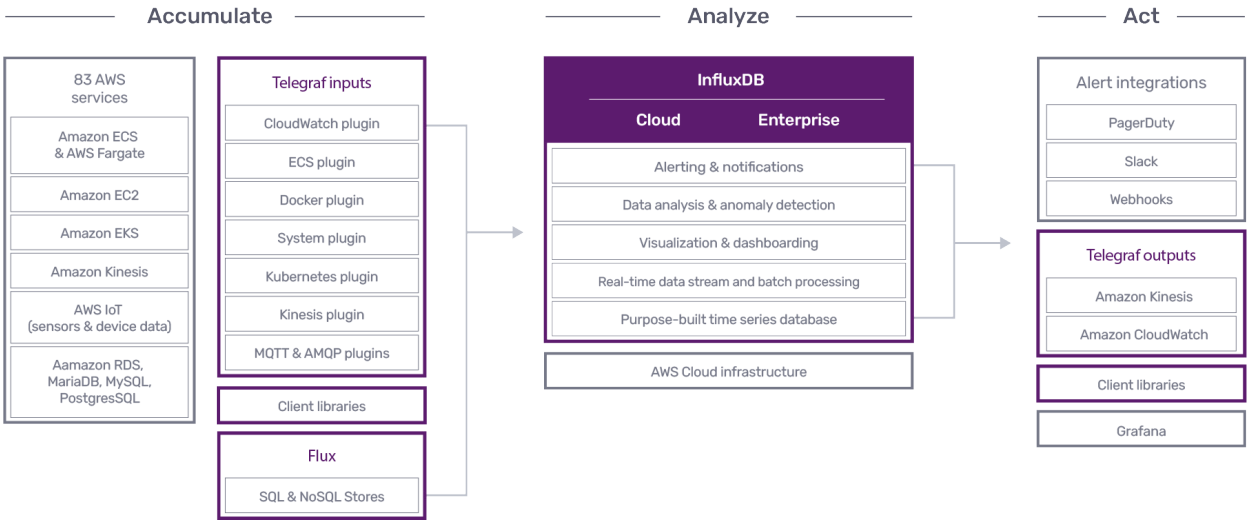
In order to make effective and differentiating predictions about the market, organizations need to be able to analyze troves of historical data, along with incoming time series market data. Because InfluxDB is a high-speed read and write database, organizations can apply machine learning models to historical and streaming data in order to make more accurate predictions about future markets.

Disaster recovery for time series databases

For financial services organizations, real-time data is coming across multiple systems from around the globe. With so many moving parts, market data and transaction messaging systems are prone to system overloads, bottlenecks and other potential pitfalls that can disrupt data flows and bring trading to a halt. As such, it is critical that the systems maintaining this data are protected with a proven recovery plan. By running InfluxDB on AWS, you can take advantage of the AWS global footprint to architect fault-tolerant environment that enables geographic redundancy and seamless failover.

"InfluxDB provides observability across a number of data sources and helps you create actionable insights in near real time."

How InfluxDB on AWS works



InfluxDB has native support for AWS applications and services and works seamlessly with popular projects like Amazon Elastic Kubernetes Service (EKS), Prometheus and Grafana. Collect metrics easily from almost any system, query and visualize data to extract insights or connect to machine learning and alerting systems to take action on the data.

Key components of InfluxDB on AWS

InfluxDB on AWS delivers several capabilities that make it easier to derive value form time series data.

- Ingest data with Telegraf: An open source library of over 250+ plugins that make it easy to pull data from other systems, sensors, and servers into InfluxDB. Or use one of the client libraries to write and query from any popular language, dramatically easing integration with other applications.
- InfluxDB: A high-performance data store written specifically for time series data, handling millions of data points a second. It can process both stream and batch data in real-time and includes a visualization tool.
- Flux and InfluxQL: Simple querying languages that are easy to learn and use, that can help find hidden meaning in data, more accurately detect anomalies, provide powerful notifications and act in time.

Analyze data from your AWS environment

Collect time series data from your apps and AWS services:

- Ingest Amazon CloudWatch metrics for more powerful dashboarding, anomaly detection and alerting that's easy to configure. You can also monitor the performance of your AWS services like Amazon EC2, Amazon Elastic Container Service (Amazon ECS), Amazon Elastic Container Service for Kubernetes (Amazon EKS) and AWS Fargate.
- Ingest streams of data using AWS Kinesis for analysis, visualization and alerting.
- Enrich your time series data by joining it with your relational data in Amazon Relational Database Service (Amazon RDS) to gain insight from trends in the data and develop powerful predictions.
- Collect, store and analyze data from sensors and devices in your AWS IoT environment.

Ready to get started?

Visit the InfluxDB listing in AWS Marketplace to learn more about the solution and quickly act on time series data.

aws | influxdata