

TickVault Big Data Platform on AWS with TickSmith

Centralized, strategic financial data management and distribution



TickSmith aws  **competency**

TickSmith is an APN Technology Partner and AWS Financial Services Competency holder

Industry Trends & Challenges

Financial institutions and participants in capital markets have never had so much data to gather, process to extract business insights, and store. From new compliance requirements and ongoing regulatory reporting demands to alpha generation opportunities enabled by Artificial Intelligence (AI) and Machine Learning (ML), the possibilities are endless. But what is the most efficient way to search and analyze this data and make it actionable and usable?

With a need for future-proof infrastructure that can ingest massive amounts of sensitive data into a single, secure, and reliable repository, financial institutions require centralized, transformative capabilities that enable effective data management at scale. Deploying a comprehensive solution that delivers these actionable insights to serve as the foundation of the business strategy can sometimes present challenges that are difficult to overcome, such as effective data management and analysis.

The TickSmith Solution

Built on open standards, TickVault, from TickSmith, simplifies the process of building and configuring solutions across many different use cases, data formats, and technologies. TickVault's capabilities go far beyond data consolidation as it also automates low-value, high-effort tasks like data preparation and data cleansing. In addition, it allows for quick integration of existing and new data science tools and models. The platform can be seamlessly integrated with your existing Amazon Web Services (AWS) infrastructure to make shared data the center of your architecture, supporting the specialized business needs of multiple teams and trading desks.

Benefits

Accelerate cost-effective internal project development and financial data management.



Don't reinvent

Our platform brings data normalization and advanced analytics to your AWS account



Save time

Running on AWS, our platform cleans and prepares data for users to quickly access and analyze



Build smarter

Our team can help you configure our platform to fit your specific needs and scale for future needs



Gain immediate results

Specialized tools empower different teams to get results and solve big data problems

Financial Services Partner Solutions

Discover scalable and secure Financial Services solutions that will empower you to achieve your business needs with Amazon Web Services (AWS) and AWS Partner Network (APN) Partners that have attained Financial Services AWS Competency designations. Customer ready solutions are based on architectures validated by AWS, include a combination of AWS services and APN Partner technologies, can be deployed quickly with solution accelerators to accelerate your cloud transformation.

[Visit here for more information.](#)

Solution overview



TickVault

TickVault helps solve challenges that financial institutions and trading firms face with the creation, preparation, modeling, and distribution of data by helping to build an enterprise-grade data lake. TickVault is ideal for exchanges, trading networks and platforms, as well as financial content and data vendors. TickVault creates historical data marketplaces to rapidly extract value from data and make it easily accessible to customers. This solution is also ideal for market makers, trading firms, hedge funds, regulators, and SROs to centralize terabytes and petabytes of data received from exchanges, data vendors, alternative data providers, trading systems, event feeds, and more.



Build on AWS

Deploy TickVault on your AWS environment to experience high availability and on-demand capacity. You will pay only for what you use, scale as your business grows, and use the AWS services that best fit your business requirements. AWS allows customers to trade capital expense for variable expense, paying for compute resources as they are consumed. And, the variable expense is much lower than what customers can do for themselves because of the economies of scale on AWS. AWS has achieved a number of internationally recognized certifications and accreditations, demonstrating compliance with third party assurance frameworks, such as ISO 27017 for cloud security, ISO 27018 for cloud privacy, and SOC 1, SOC 2 and SOC 3. AWS customers inherit all the best practices of AWS policies, architecture, and operational processes built to satisfy the requirements of the most security sensitive customers.

How it works

The TickVault platform is designed for instances that are interconnected with an EMR cluster deployed on AWS. Scalable and flexible, TickVault loads terabytes and petabytes of data from files and feeds in near real time, enabling you to rapidly run reporting against them. This solution also delivers point and click access to your data with easy-to-use charting tools and dashboards, while allowing you to self-manage user registrations and entitlements using an administrative interface tool.

Getting started

[Contact AWS and TickSmith](#)

[TickSmith offering on Solution Space](#)



About AWS: For 10 years, Amazon Web Services has been the world's most comprehensive and broadly adopted cloud platform. AWS offers over 100 services for compute, storage, databases, analytics, mobile, Internet of Things (IoT) and enterprise applications from 49 Availability Zones (AZs) across 18 geographic regions in the United States, Canada, Europe, Asia, Australia and South America. AWS services are trusted by more than a million active customers around the world – including the fastest growing startups, largest enterprises, and leading government agencies – to power their infrastructure, make them more agile, and lower costs. To learn more about AWS, visit <http://aws.amazon.com>.

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