Leading Financial Technology Company's Journey to Enhanced Security and Efficiency with JFrog

Robust Security and Compliance

Enhanced Operational Efficiency

Seamless Integration and Scalability

~1300	**~40 Million**	**4**
Developers	Artifacts	Geo locations

This leading fintech company has transformed their software development processes and strengthened security measures with the JFrog Software Supply Chain Platform. By leveraging JFrog's comprehensive solutions, the team has achieved significant improvements in operational efficiency while embedding robust security within their CI/CD ecosystem.

> JFrog has become the heartbeat of our CI/CD build pipelines, ensuring we deliver quality software in a secure manner."
> – Engineering Manager II

Overview

This leading financial technology company provides consumers with free access to their credit scores and personalized financial insights. The platform aims to help individuals make informed financial decisions across various domains, including credit scores, loans, and budgeting. Their commitment is to enhance the financial well-being of their customers while maintaining a free and accessible service.

Challenges

The company's engineering teams identified the need for a centralized and secure end-to-end platform to handle their growing software dependencies, binary management, and security needs.

Key challenges that impacted the team's software development efficiency included:

- ✅ **Dependency management and lack of centralized repository:** There was no centralized system to manage dependencies across multiple codebases, leading to inconsistencies, difficulties with version control, and inefficiencies in updates.
- ✅ **Security concerns:** As a fintech company, they needed to ensure stringent security protocols in software shipping in order to prevent the use of unapproved or vulnerable packages.
- ✅ **Operational inefficiencies:** Developers lost valuable time locating and managing dependencies from disparate sources, which slowed down their development cycles and hindered productivity.
- ✅ **Integration issues:** The existing tools and infrastructure created complexities in their CI/CD processes, necessitating a solution that could seamlessly integrate with tools like GitHub and CircleCI.
- ✅ **Scalability challenges:** As the company expanded, their systems needed to be able to scale with the increasing integration of AI and ML models.

Solution

These challenges highlighted the urgent need for a comprehensive solution like the JFrog Platform to streamline dependency management, enhance security, and improve overall operational efficiency.

The team has benefitted from these JFrog solutions, specifically:

- ✅ **JFrog Artifactory:** Used as a centralized binary repository, supporting various package types such as Docker and Python. This has allowed the engineers to efficiently manage dependencies and ensure high-quality deployments without external interruptions.

> " Without JFrog Artifactory, none of our processes can work. It is integral to data processing, ensuring every job runs with the required packages."

- ✅ **JFrog Xray:** With JFrog Xray, the team conducts thorough scans of their binaries to detect vulnerabilities, ensuring that only secure and approved packages are utilized in production. This proactive approach to security mitigates risks and aligns with their commitment to safeguarding user data.

✅ **JFrog Curation:** JFrog Curation provides the security team the ability to allow only vetted models and packages for use, creating a controlled environment that aligns with regulatory standards and enforcing compliance and governance. This ensures that every software component meets the necessary security protocols before deployment.

> " As a financial services company, we take security very seriously. And with JFrog Curation in place, our security team can feel confident knowing that developers are only accessing approved binaries, which significantly strengthens our overall security stance."

✅ **AI Infrastructure Integration:** As the organization embraces AI technologies, JFrog's model registry will serve as a significant asset, enabling the safe and regulated hosting of AI models that developers can easily access.

Results

Since implementing JFrog, the team has seen significant improvements across various facets of their operations.

✅ **Increased Operational Efficiency**
Developers can quickly access required packages, leading to quicker turnaround times for development cycles, essential in a fast-paced digital environment. Centralized artifact management has reduced dependency-related issues, enhancing productivity.

✅ **Strengthened Security Protocols**
The integration of JFrog Xray and Curation has established a robust security framework, ensuring that only approved models and packages are utilized in production. Comprehensive security measures like enhanced monitoring and control of package access protect sensitive user data, essential for maintaining trust in fintech services.

> " JFrog's security features are instrumental; they help ensure we ship secure software while adhering to compliance standards – an absolute necessity for a fintech company."

✅ **Support for Scalability**
JFrog's flexible architecture supports the expanding needs of the engineering teams as they integrate new technologies, including AI.

✅ **Developer Productivity**
Streamlining access to necessary resources leads to faster project completion and innovation.

✅ **Scalable Infrastructure**
The adaptable nature of JFrog's solutions ensures that the team can grow and evolve without compromising performance or security.

The integration of the JFrog Platform has empowered the company to enhance its software development processes significantly while upholding the highest security standards essential in the financial services industry.

> **"** The overall impact of implementing JFrog has been positive in terms of developer productivity, security, efficiency, and innovations across our build processes."

The JFrog Software Supply Chain Platform

By implementing JFrog Artifactory, Xray, and Curation, the team has streamlined dependency management, fortified their security posture, and positioned itself for future growth in a rapidly evolving landscape. As a result, they continue to deliver secure, high-quality software to millions of users, meeting their commitment to financial well-being.

We invite software development and security professionals from the Financial Services industry to learn more about how JFrog's software supply chain management and security solutions can benefit their organizations. Take a guided tour, schedule a one-on-one demo, or start a free trial at your convenience.

ABOUT JFROG

JFrog empowers thousands of DevOps organizations globally to build, secure, distribute, and connect any software artifact to any environment using the universal, hybrid, multi-cloud JFrog Platform.

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