



EXECUTIVE BRIEF

MASTER YOUR SOFTWARE SUPPLY CHAIN WITH JFROG'S DEVOPS PLATFORM

Software supply chains (SSC) bring together fast-changing components from multiple sources, creating many possible points of failure.

Over 90% of applications use open source components, and half of all enterprises employ 12 or more distinct package technologies, expanding the attack surface for malicious actors. Cyberattacks are on the rise and new zero-day vulnerabilities are discovered regularly as automation of software delivery has amplified security risks, driving greater demands for transparency by governments and regulatory bodies.

Enterprises must control their diverse SSCs through deeply integrated solutions for development, security, and operations that can be centrally managed. By unifying multi-technology development through a universal home for binaries, organizations can enforce a uniform security posture and speed time to delivery. Knowing the provenance of every component, developers can block known vulnerabilities and remediate fast across the entire production inventory. Once established, this secure circle of trust can be extended globally across organizational boundaries.

CHALLENGES TODAY:

FRICTIONLESS SOFTWARE DELIVERY WITH TRUST

DEVELOP AND DEPLOY WITH CONFIDENCE

Organizations must curate all artifacts in a single system protected against mistake or malice through authentication, access control, and checksum verification. Deliver software through this circle of trust to eliminate bottlenecks, enable automation, and speed mission-critical development. Core systems must reliably scale globally, and connect your trusted supply chains to all consumption points.

SECURING THE ATTACK SURFACE

To fortify the SSC, organizations require deep analysis at the binary level, including zero-day vulnerability detection, and configuration analysis. With limited security resources, teams must focus on the threats that truly matter by leveraging advanced contextual analysis and remediation guidance. Security as an "add-on" doesn't provide deeply integrated best practices across the entire SDLC.

SPEED TIME TO RECOVERY

Understanding the provenance of every component in your supply chain is only possible through rich metadata enabling powerful querying and traceability. Centralizing binaries with advanced metadata-based searchability is required to find and fix threats in all code across your entire SSC with speed and consistency, and to block further use of the vulnerable or malicious components by developers.

KEY TAKEAWAYS

- ✓ The modern SSC is highly complex, bringing together components and tools from many sources
- ✓ Over 90% of applications use open source components
- ✓ Securing the SSC requires integrated Dev + Sec + Ops for full visibility and control
- ✓ The JFrog DevOps Platform brings your SSC under one umbrella in a cohesive way

HOW JFROG CAN HELP: BRING TOGETHER YOUR SUPPLY CHAIN IN A COHESIVE WAY

UNIVERSAL, CENTRALIZED ARTIFACT MANAGEMENT

Enable developer teams to use any language technology through a single, industry leading binary management solution with native support for 30+ package and artifact types. Cache remote, open source dependencies to speed up development with fast, uninterrupted access and to enforce immutability of every version. Curate to ensure only approved packages are used.

INTEGRATED SECURITY CONTROLS AT EVERY STEP

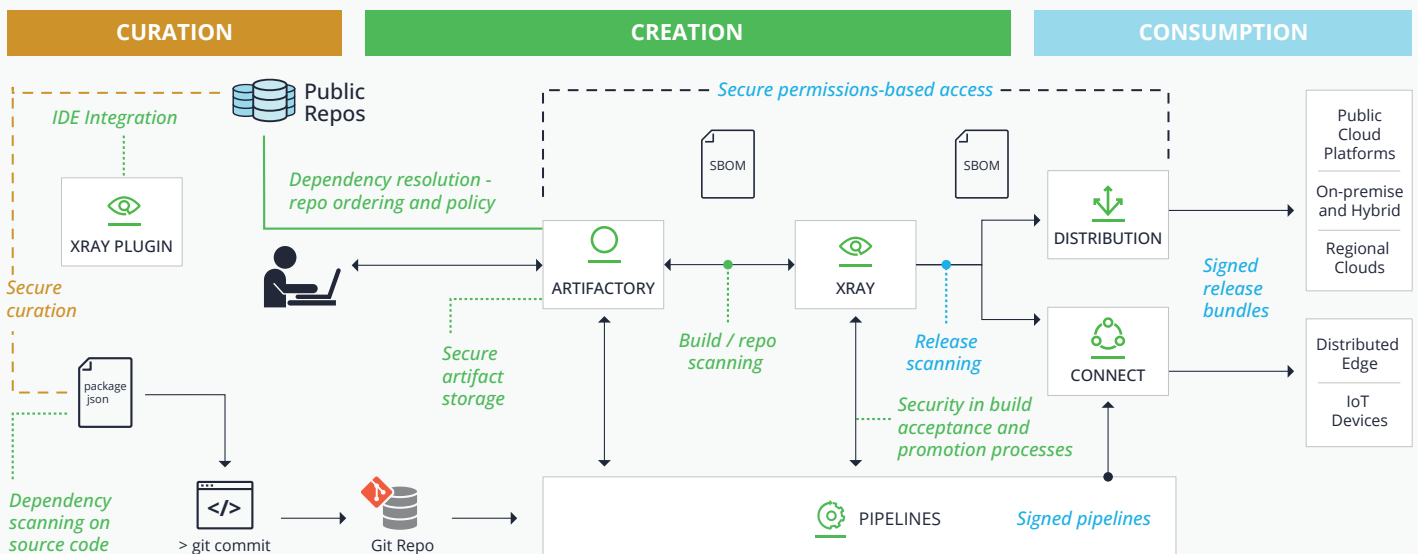
Find, fix, and fortify against vulnerabilities in all layers (including first- and third-party software), and enforce organization-wide usage policies on licenses and vulnerability thresholds. Rich metadata with every build provides visibility and control across the development lifecycle, with full traceability of every dependency for fast remediation and instant SBOM generation.

CONNECT YOUR ECOSYSTEM WITH GLOBAL SCALE AND AUTOMATION

High availability infrastructure and disaster recovery mechanisms ensure binaries can always be accessed where needed. Through multi-site replication and fine-grained controls for projects and roles, global teams can collaborate seamlessly. Choose your DevOps tools and use out-of-the-box plugins or customize through APIs to integrate with your existing developer ecosystem.

THE SOFTWARE SUPPLY CHAIN CYCLE

Secure key stages of curation, creation, and consumption to deliver within a circle of trust.



With the [JFrog DevOps Platform](#), you can unify, accelerate, and secure your software delivery, from development to distribution. The JFrog Platform offers deeper Dev, Sec, and Ops integration, in a flexible, and expandable platform that delivers increased security, visibility, and control on-premise, in the cloud, and at the edge.

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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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