



JFrog  
XRAY

## SOLUTION SHEET

# ADVANCED DEVOPS SECURITY, FROM SOURCE TO EDGE.



### THE CHALLENGE

Securing your software supply chain is an increasingly complex problem with evolving attack methods and a mix of security point solutions, which can leave you with security blind spots and gaps across your supply chain. DevOps and security professionals are left to figure out how to maintain development speed without sacrificing the trust in your releases. Ensuring developers have integrated security automation and knowledge at their fingertips is the panacea of secure software delivery at the speed of DevOps.

### THE SOLUTION

JFrog Xray is an application security solution that integrates advanced security automation and know-how directly into DevOps workflows, enabling teams to deliver trusted software releases faster. JFrog Xray fortifies your software supply chain with enhanced software composition analysis and spans your entire pipeline from your IDE all the way through distribution to your edge devices.

### BENEFITS

#### See what no one else sees

Drive cross-team cooperation and trust centered on deep security research that automatically delivers unparalleled visibility into issues, their impact, and actionable advice for developers.

#### Find, fix & fortify

Sharpen developer focus with prioritized, contextual remediation advice that identifies what matters most to ensure you're protected.

#### Secure from one place

Execute with confidence, taking holistic action across code, configurations, and binaries throughout your portfolio from a single platform.



“ XRAY IS BEING USED AS A SECURITY SOLUTION TO ASSIST US IN FINDING OUT WHICH DOCKER IMAGES THAT ARE PUBLISHED OUT TO OUR ARTIFACTORY INSTANCE ARE VULNERABLE, AND DIGGING DOWN INTO ALL THE DIFFERENT LAYERS WITHIN THOSE DOCKER IMAGES AND FINDING OUT EXACTLY WHAT NEEDS TO BE FIXED.

**BRAD BECKETT, DEVOPS ENGINEER, KROGER** ”

#### Comply with confidence

Automate regulatory and governmental compliance tasks with all must-have actions for SBOM generation, sharing, and reporting out of the box.

#### Protect against malicious activity

Stop security issues that arise post-code generation with binary-based analysis across the software supply chain, including in curation, dev, test, staging, and production.

#### Take intelligent action

Know where vulnerabilities live, and deploy fixes across your portfolio with integrated binary management and distribution capabilities based on complete lifecycle metadata.

## THE JFROG SOLUTION

JFrog Xray and the JFrog Platform intelligently identify significant supply chain security issues that attackers use to compromise developers' processes, with:



### Container contextual analysis

Advanced container scanning to identify and prioritize whether the open source software vulnerabilities are actually exploitable in your application – an industry first.



### Infrastructure-as-Code (IaC) security

Secure IaC files stored in JFrog Artifactory for early detection of cloud and infrastructure misconfigurations that can be exploitable.



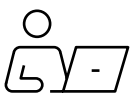
### Malicious package detection

Discover and eliminate unwanted or unexpected packages, using JFrog's unique database of identified malicious packages.



### Enhanced CVE remediation data

Speed mitigation with enhanced remediation for critical CVEs, enabling developers, DevOps, and security teams to understand more about how to easily & intelligently address vulnerabilities, often with simple code or configuration changes.



### Developer-oriented features

Security know-how is at their fingertips with Integration directly into the most popular IDEs, Docker Desktop, vulnerability scanning via CLI, and Frogbot scanner for discovering vulnerabilities in git repositories.



### Detect exposed secrets

Detect secrets left exposed in any containers stored in JFrog Artifactory to prevent any accidental leak of passwords, API keys, internal tokens, or credentials.



### Insecure use of OSS libraries and services

Discover whether common OSS libraries and services are used or configured insecurely, causing exposure to attacks.



### Operational risk policies

Enable easy handling of open source software risks like package maintenance issues & technical debt.



### Enhanced CVE data and severity assessment

Understand critical CVEs and learn additional insights to enable developers, DevOps, and security teams to understand issues across OSS and commercial environments. Driven by our dedicated security research team's advanced analysis.



### Security-oriented features

Make compliance a breeze with SBOMs out of the box, industry-standard SPDX and CycloneDX and new security UI screens, with all security scans shown in one place.

## HOW IS JFROG DIFFERENT?

JFrog's differentiated approach is to deliver a unified Platform that bridges the gap between Developers, DevOps and Security teams, driving a single source of record for software supply chain security. JFrog is uniquely positioned to intelligently unify these groups with the following key differentiating themes:



### Binary focus

The modern software supply chain has only one core asset delivered into production: the software binary. Therefore, today's attackers try to reverse-engineer, break or entice the shipment of compromised binaries. Because they contain more information than source code, JFrog's focus on the binary, reveals issues that are not always visible in source code.



### Comprehensive coverage, including context

JFrog identifies OSS vulnerabilities, any OSS library misuse, insecure use of services, exposed secrets, IaC configuration issues, and identification of the applicability and exploitability of the most serious vulnerabilities in your application - all in a single platform. CVEs may or may not be exploitable depending on the application's configurations, reachability paths, and compile flags.



### Security that really works for DevOps

Security teams set security strategies and compliance policies. Development teams build, remediate and manage code bases. Binaries, infrastructure, integrations, releases and flows all must be addressed to enable a DevOps-centric workflow that works for core DevOps teams, not just security and developers.



### Native integration with binary management

JFrog Artifactory manages all artifacts and repositories in one place, which becomes a single source of truth for an organization. Security becomes an easy process when you have control of your entire portfolio and are deeply integrated. Your single source of truth becomes a single source of trust.



### End-to-End software supply chain coverage

DevOps becomes the security pivot point for organizations, since every process, and tool requires and incorporates security. JFrog Xray and the advanced security features are deeply integrated, allowing companies to unify, accelerate & secure their software delivery. An enterprise-grade offering, that supports cloud, multi-cloud and hybrid deployments and can even deliver to the edge/IoT at any scale.

## SEE HOW XRAY AND ADVANCED SECURITY COMPARES

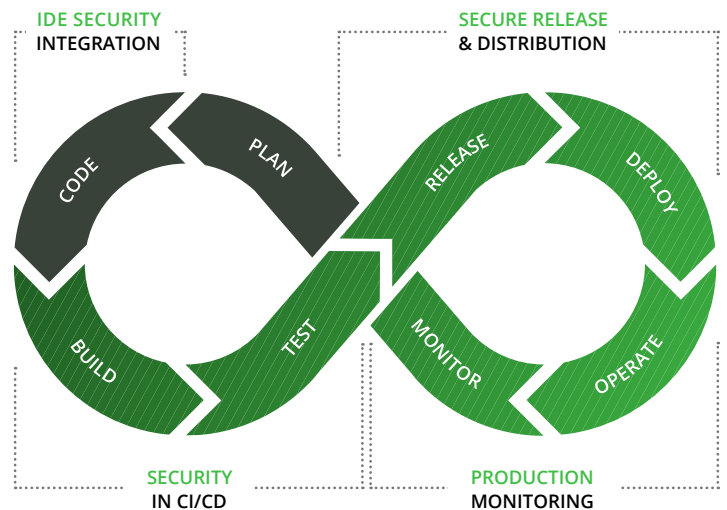
	JFrog	Sonatype	Snyk	Synopsys	GitLab	GitHub
						
Enhanced Software Composition Analysis						
Services Exposures						
Secrets Detection						
IoT Security						
Prioritization with Contextual CVE Analysis						
Single Pane of Glass for Artifact Security						
Fully Hybrid & Multi-Cloud						

## ADDRESSING TODAY'S SECURITY CHALLENGES WITH A HOLISTIC APPROACH

**Deliver trusted software**, reduce risk and fortify your brand with strong protection from a broad range of security threats across the software supply chain.

**Innovate with speed and scale** while safeguarding your software and your customers. Make automated security a natural part of your SDLC workflows and minimize the effort required to identify, prioritize and fix vulnerabilities.

**Simplify compliance** with security regulations, standards, and internal policies by consistently implementing software security controls and best practices.



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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.

### LEGAL STATEMENT

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