

Black Duck Polaris Platform

An integrated, cloud-based AST solution optimized for modern DevSecOps

Polaris is an easy-to-use application security platform, optimized for modern DevSecOps, with the power and scalability enterprises need.

Overview

Black Duck Polaris® Platform is an integrated, software-as-a-service (SaaS) application security platform powered by the industry's leading static application security testing (SAST), software composition analysis (SCA), and dynamic application security testing (DAST) engines. It provides fast, multitype scanning capabilities with highly accurate results triaged by Black Duck security experts. An easy-to-use and cost-effective solution that can scale with business application security needs, Polaris enables application security and development teams to collaborate in real time and meet release deadlines while managing enterprise application risk holistically.

Key benefits

- **Flexibility.** The on-demand, integrated AppSec platform makes it easy to provision, manage, and monitor enterprise-wide scanning and assessments 24x7.
- **Scalability.** Scale application security cost-effectively. Whether your organization requires testing for a single application or thousands, Polaris delivers a unified SaaS platform to meet your needs.
- **Ease of use.** Easy onboarding, deployment, and testing from a single unified platform. Seamless integration with existing developer, test automation, and CI/CD workflows.
- **Concurrent scanning.** Concurrent scanning improves performance by allowing you to run SAST, SCA, and DAST analysis at the same time. There is no limit to the number of tests you can run.
- **Accurate findings.** Black Duck market-leading SCA, SAST, and DAST engines provide complete and highly accurate results. Expert analysis and triage for SAST results is also available to further improve results by identifying and removing false positive findings.
- **Enterprise visibility.** Polaris dashboards and reports give you a view of vulnerabilities and trends across all your teams and applications.



Key features

fAST Static

Polaris fAST Static allows organizations to perform automated static analysis of all codebases, making it easy for developers and testers to find potential security flaws in their code early in the software development life cycle (SDLC).

The screenshot shows the Black Duck fAST Static interface for a project named 'insecure-bank'. The main view displays a table of 104 matching issues. The table columns include Issue Type, Location, Filename/Origin, Tool Type, Triage Status, CWE, Vulnerability, Jira ID, and First Detector. The issues listed are:

Issue Type	Location	Filename/Origin	Tool Type	Triage Status	CWE	Vulnerability	Jira ID	First Detector
Cross-site Scripting	src/main/java/org/hdivsamples/controllers/DashboardController.java	DashboardController.java	SAST	Not Triaged	CWE-79			Oct 14, 20...
SQL Injection	src/main/java/org/hdivsamples/controllers/DashboardController.java	DashboardController.java	SAST	Not Triaged	CWE-89			Oct 14, 20...
SQL Injection	src/main/java/org/hdivsamples/controllers/DashboardController.java	DashboardController.java	SAST	Not Triaged	CWE-89			Oct 14, 20...
SQL Injection	src/main/java/org/hdivsamples/controllers/ActivityController.java	ActivityController.java	SAST	Not Triaged	CWE-89			Oct 14, 20...
SQL Injection	src/main/java/org/hdivsamples/controllers/DashboardController.java	DashboardController.java	SAST	Not Triaged	CWE-89			Oct 14, 20...

The interface also includes a sidebar with filters for Triage Status, Issue Type, Issue Category, Severity, Tool Type (SAST, SCA), Location, CWE, Standard, and Owner. A detailed view of a 'Cross-site Scripting' issue is shown below the table, including the source code snippet and remediation steps.

fAST SCA

Polaris fAST SCA allows organizations to automate software composition analysis across the SDLC, providing a complete Bill of Materials (BOM) of nonvulnerable and vulnerable open source components, including licenses used, dependency trees, and origins, as well as upgrade guidance.

The screenshot shows the Black Duck fAST SCA interface for a project named 'SIGApp > TestProject'. The main view displays a table of 2,811 results across 36 pages. The table columns include Security Risk, Component Name, Match Type, Usage, and License Name. The components listed are:

Security Risk	Component Name	Match Type	Usage	License Name
Critical	Apache Ant 1.7.1	Transitive Dependency	Dynamically Linked	LGPL-2.1+
High	Apache Ant 1.7.1	Transitive Dependency, Direct Dependency, Files Modified	Dynamically Linked	LGPL-2.1+
Low	Apache Ant 1.8.0	Transitive Dependency (x2)	Dynamically Linked	LGPL-2.1+
Medium	Beanshik Client 1.4.6	Transitive Dependency	Dynamically Linked	LGPL-2.1+ (*)
Low	FindBugs-jr 2.0.1	Transitive Dependency	Dynamically Linked	Apache-2.0

The interface also includes a sidebar with filters for Component, License, Match Type, and Security Risk. A detailed view of a component is shown below the table, including the component description, component links, component origins, current vulnerabilities, and upgrade guidance. A 'Dependency Tree' panel is also visible, showing the dependency structure for the selected component.

FAST Dynamic

Polaris FAST Dynamic allows organizations to run quick, self-service DAST analysis of modern web applications without slowing development down. No complex configuration or setup required. Automate and scale testing of hundreds of websites easily with built-in settings to choose from.

The screenshot displays the Black Duck interface for project6. It shows a table of 16 matching issues. The table columns include Issue Type, Location, Attack Target, Triage Status, CWE, Vulnerability ID, Fix-By, and First Detected. The selected issue is 'Cross Site Scripting - Reflected' with a severity of Medium, detected on Mar 19, 2024, 1:11 AM. The detailed view below the table shows the location of the issue, issue details, first detected time, fix-by deadline, issue type, description, tool used (FAST-DAST), scan date and time, vulnerability overall score (6.1), and severity (Medium).

Issue Type	Location	Attack Target	Triage Status	CWE	Vulnerability ID	Fix-By	First Detected
Improper Neutralization of Special Elements used in SQL Co...	https://altorj.tinfoilsecurity.com/altorj/doLogin	uid	Not Triaged	CWE-89		in 5 days	Mar 19, 2024, 1:11 AM
Improper Control of Interaction Frequency	https://altorj.tinfoilsecurity.com		Not Triaged	CWE-770		in 12 days	Mar 19, 2024, 1:11 AM
Use of Web Browser Cache Containing Sensitive Information	https://altorj.tinfoilsecurity.com/admin/		Not Triaged	CWE-525		in 28 days	Mar 19, 2024, 1:11 AM
Exposed Dangerous Method or Function	https://altorj.tinfoilsecurity.com/doSubscribe	Method	Not Triaged	CWE-749		in 28 days	Mar 19, 2024, 1:11 AM
Inadequate Encryption Strength	https://altorj.tinfoilsecurity.com/altorj/feedback.jsp	[TLS_ECDHE_RSA_WITH...	Not Triaged	CWE-326		in 28 days	Mar 19, 2024, 1:11 AM
Insufficient Verification of Data Authenticity	https://altorj.tinfoilsecurity.com/altorj/uti/serverStatus...	HostName	Not Triaged	CWE-345		in 28 days	Mar 19, 2024, 1:11 AM
Cross Site Scripting - Reflected	https://altorj.tinfoilsecurity.com/altorj/uti/serverStatus...	HostName	Not Triaged	CWE-79		in 28 days	Mar 19, 2024, 1:11 AM

Issue Details

Location: https://altorj.tinfoilsecurity.com/altorj/uti/serverStatusCheckService.jsp?HostName=<script>alert(985510345);</script>

Issue Details

First Detected: Mar 19, 2024, 1:11 AM

Fix-By: in 28 days (Apr 18, 2024, 1:11 AM)

Issue Type: Cross Site Scripting - Reflected

Description: Reflected XSS (Non-Persistent) occurs when an injection from one request is displayed in a following response from the web server.

Tool: FAST-DAST

Scan Date and Time: Mar 20, 2024, 9:29 AM

Vulnerability: Overall Score 6.1

Severity: Medium

Expert verification and analysis

SAST scan results are reviewed with false positives removed, and critical findings prioritized for timely remediation.

AI-enabled remediation guidance

AI-driven remediation assistance that provides concise, developer-friendly descriptions with risk information alongside specific code fix recommendations, powered by Polaris Assist.

Seamless integrations

The easy-to-use platform provides seamless integrations with development and DevOps toolchains.

Policy management

Customizable rules can be set up in minutes per defined business risk policy.

Enterprise insights

Get organization-wide insights into the overall health and effective risk posture across apps and projects.

Choose the Polaris offering best suited to your needs

Feature	Description	Polaris SAST Subscription	Polaris SCA Subscription	Polaris DAST Subscription	Polaris Package SCA/SAST
fAST Static	Automate static analysis across the SDLC	●			●
fAST SCA	Automate software composition analysis across the SDLC		●		●
fAST Dynamic	Self-serve, automated dynamic web application testing			●	
Expert triage option	SAST analysis results are reviewed by Black Duck security experts to assist with prioritization and false positive removal	●			●
SCM integrations	Quickly onboard applications directly from your repositories	●	●		●
Policy management	Simplify policy management through optimized rules, automating enforcement of security and risk policies	●	●	●	●
Concurrent scanning	Run multiple types of scans on target application simultaneously	●	●	●	●
CI/CD integrations	Automate application security in DevOps pipelines	●	●	●	●
Flexible reports, analytics	Manage risk, measure, and improve your risk posture using enterprise analytics capabilities	●	●	●	●

Language and package manager support

SAST languages

- Salesforce Apex
- C/C++
- C#
- DART
- Go
- Java
- JavaScript
- Kotlin
- Objective-C/C++
- PHP
- Python
- Ruby
- Swift
- TypeScript
- Visual Basic

IaC platforms and formats

- AWS Cloud Formation
- Kubernetes
- Terraform
- YAML
- JSON

SCA package manager support

- XML
- Apache Ivy
- BitBake
- Cargo
- Carthage
- CocoaPods
- Conan
- Conda
- CPAN
- CRAN
- Dart
- Erlang/Hex/Rebar
- Git
- Go Dep
- Gogradle
- Go Modules
- Go Vendor
- Gradle
- Hex
- Lerna
- Maven
- npm
- NuGet
- Packagist
- PEAR
- pip
- pnpm
- Poetry
- RubyGems
- SBT
- Swift and Xcode
- Yarn

Source code management (SCM) system support

- GitHub
- GitLab
- Azure DevOps
- Bitbucket

About Black Duck

Black Duck® offers the most comprehensive, powerful, and trusted portfolio of application security solutions in the industry. We have an unmatched track record of helping organizations around the world secure their software quickly, integrate security efficiently in their development environments, and safely innovate with new technologies. As the recognized leaders, experts, and innovators in software security, Black Duck has everything you need to build trust in your software. Learn more at www.blackduck.com.

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