Overview
Black Duck is a comprehensive solution for managing security, license compliance, and code quality risks that come from the use of open source in applications and containers. Named a leader in software composition analysis (SCA) by Forrester, Black Duck gives you unmatched visibility into third-party code, enabling you to control it across your software supply chain and throughout the application life cycle.

An integrated solution for source and binaries
Only Black Duck combines versatile open source risk management with deep binary inspection to provide a best-in-class SCA solution that helps you minimize risks associated with open source and other third-party software. In a time when open source composes 60% of the average codebase, Black Duck empowers your development, operations, procurement, and security teams to:

• Find and fix security vulnerabilities at each stage in the SDLC, with detailed, vulnerability-specific remediation guidance and technical insight.
• Eliminate risk of open source license noncompliance and safeguard your intellectual property by using the industry's largest open source knowledge base to identify which of 2,600+ licenses are relevant to the open source in your applications (including code snippets from larger components).
• Avoid development cost overruns and combat code decay with operational risk metrics associated with poor open source code quality.
• Scan virtually any software, firmware, and source code to generate a comprehensive bill of materials (BOM) of what's inside.
• Automatically monitor for new vulnerabilities that affect your BOM, with custom policies and workflow triggers to accelerate remediation and reduce your risk exposure.
Key benefits

Get deeper, more streamlined analysis
Black Duck identifies more open source, with greater accuracy, using a unique multifactor detection technology to generate and validate a complete BOM to track declared components, unique file hash signatures, dependencies resolved during a build, and open source code snippets. Black Duck’s intelligent scan client integrates with development tools used throughout the SDLC and automatically detects resources to optimize its scan methodology.

Find and fix vulnerabilities quickly
Black Duck’s open source security risk insight combines curated data from public sources (e.g., NVD) and detailed, proprietary analysis from the Synopsys Cybersecurity Research Center (CyRC). Get notified of new vulnerabilities up to 30 days before they are published in the NVD (reducing your window of exposure), and benefit from our exclusive enhanced vulnerability data and Black Duck Security Advisories (BDSAs), including:

- Critical risk metrics, vulnerability-specific technical insight, exploit details, and impact analysis
- CVSS 2 and CVSS 3 scoring and CWE classification data
- Common Attack Pattern Enumeration and Classification (CAPEC)
- Temporal scoring not provided by the NVD
- Component-level upgrade and remediation guidance, mitigating factors, and compensating controls
- Custom vulnerability risk scoring to match your company risk profile

Automatically enforce security and use policies
Configure your open source security and use policies based on a comprehensive array of criteria, including license type, vulnerability severity, open source component version, and more. Enforce policies with automatic workflow triggers, notifications, and bidirectional Jira integration for accelerated remediation initiation and reporting.

Identify open source risks, even without source code
With Black Duck in your toolkit, you can quickly and easily analyze vendor-supplied binaries to identify weak links in your software supply chain without access to the source code. Get deep, actionable risk metrics to make informed decisions about your use and procurement of technologies before they put you at risk. Black Duck’s intelligent scan client automatically determines if the target software is source or a compiled binary, then identifies and catalogs all third-party software components, associated licenses, and known vulnerabilities affecting your applications.
Languages
- C
- C++
- C#
- Erlang
- Golang
- Java
- JavaScript
- Node.js
- Objective-C
- Swift
- Perl
- Python
- PHP
- R
- Ruby
- Scala
- .NET

Cloud technologies

Cloud platforms
- Amazon Web Services
- Google Cloud Platform
- Microsoft Azure

Container platforms
- Docker
- OpenShift
- Pivotal Cloud Foundry
- Kubernetes

Package managers
- NuGet
- Hex
- Vndr
- Godep
- Dep
- Maven
- Gradle
- Npm
- CocoaPods
- Cpanm
- Conda
- Pear
- Composer
- Pip
- Packrat
- RubyGems
- SBT

Databases
- PostgreSQL

DevOps tools

IDEs
- Eclipse
- Visual Studio IDE

Continuous integration
- Jenkins
- TeamCity
- Bamboo
- Team Foundation Server
- Travis CI
- CircleCI
- GitLab CI
- Visual Studio Team Services
- Concourse CI
- AWS CodeBuild
- Codeship

Workflow and notifications
- Jira
- Slack
- Email
- SPDX

Binary and source repositories
- Artifactory
- Nexus

Application security suites
- IBM AppScan
- Micro Focus Fortify
- SonarQube
- ThreadFix
- Cybric
- Code Dx
The Synopsys difference
Synopsys helps development teams build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior. With a combination of industry-leading tools, services, and expertise, only Synopsys helps organizations optimize security and quality in DevSecOps and throughout the software development life cycle.

For more information, go to www.synopsys.com/software.

Synopsys, Inc.
185 Berry Street, Suite 6500
San Francisco, CA 94107 USA

U.S. Sales: 800.873.8193
International Sales: +1 415.321.5237
Email: sig-info@synopsys.com

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