SYNOPSYS®

Black Duck Binary Analysis

Manage security, license, and code quality risks in your software supply chain

Overview

Black Duck Binary Analysis is a software composition analysis (SCA) solution to help you manage the ongoing risks associated with a complex, modern software supply chain. Empower procurement, operations, and development teams with visibility and insight into the composition of commercial applications, vendor-supplied binaries, and other third-party software.

A portrait of risk

To accelerate innovation and bolster efficiency in critical business infrastructure, organizations consume systems and software from various suppliers. Their demand for better, faster technology drives increasing reliance on a complex software supply chain for third-party components. While this approach has many advantages, it also presents many security challenges:

- **A software patchwork.** Virtually all software includes third-party components, including free and open source software (FOSS), commercial off-the-shelf code (COTS), and internally developed components, which are rarely sourced with security in mind and often contain vulnerabilities.
- **Deferred accountability.** Consumers of software and systems often incorrectly assume that security and robustness are upstream responsibilities—and thus bear the risk of an unchecked software supply chain.
- **Ground zero for attacks.** Vulnerable third-party software represents a weak link in the supply chain that provides a point of entry for attackers.

Key features

Scan almost anything

Black Duck Binary Analysis quickly generates a complete software bill of materials (BoM), which tracks third-party and open source components, and identifies known security vulnerabilities, associated licenses, and code quality risks. Because Black Duck Binary Analysis analyzes binary code, as opposed to source code, it can scan virtually any software, including desktop and mobile applications, embedded system firmware, and more.

Easy-to-use dashboard

Black Duck Binary Analysis has an interactive dashboard with a high-level overview of the composition and overall health of scanned software. The dashboard summary includes the following:

- **Software bill of materials (BoM).** Black Duck Binary Analysis provides detailed information about each identified third-party component, including version, location, license obligations, known vulnerabilities, and more.
- **Vulnerability assessment.** Black Duck Binary Analysis uses an advanced proprietary engine to provide enhanced, relevant information about each vulnerability from the NIST National Vulnerability Database (NVD), including the Common Vulnerabilities and Exposures (CVE) identifier and severity.
- **Open source licenses report.** Black Duck Binary Analysis helps you avoid software license noncompliance by identifying applicable licenses and any potential conflicts.

Key benefits

With Black Duck Binary Analysis, you can analyze software without requiring access to source code, and identify weak links in your software supply chain quickly and easily.

- **Scan virtually any software or firmware in minutes.** Gain visibility into essentially any software or firmware, including desktop and mobile applications, embedded system firmware, virtual appliances, and more.
- **No source code required.** Simply upload the software you want to assess, and Black Duck Binary Analysis performs a thorough binary or runtime analysis in minutes. This black box technique emulates an attacker's approach to detecting vulnerabilities.
- **Obtain a comprehensive BoM.** Identify and catalog all third-party software components and licenses.
- **Manage your risk profile.** Diagnose software health by identifying known vulnerabilities and licensing obligations in software components. Make informed decisions about the use and procurement of technology with realistic metrics.
- **Proactively combat code decay.** Automatically receive alerts for newly discovered vulnerabilities in previously scanned software.
- **Enjoy a flexible delivery model.** Black Duck Binary Analysis is available as a cloud-based service or an on-premises appliance.

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.

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