

Black Duck Dynamic Application Security Testing Solutions

Introduction

Black Duck is a market leader in application security, providing comprehensive solutions to manage software risks. Trusted by 49 of the Fortune 100 companies, 6 of the top 10 financial services companies, and 10 of the top 10 technology companies, Black Duck delivers unmatched expertise and a full suite of application security testing tools. Our mission is to help organizations build trust in their software by managing application risks at the speed their business demands.

This document focuses on our dynamic application security testing (DAST) solutions, Polaris fAST Dynamic, Black Duck® Continuous Dynamic, and our managed DAST and pen testing services, which help teams identify vulnerabilities in web applications at multiple points in the application life cycle.

The Challenge of Modern Web Applications and the Need for Effective DAST Solutions

Dynamic application security testing is an essential complement to static application security testing (SAST) and software composition analysis (SCA). These tests are critical during development, but many vulnerabilities are difficult to detect until the application is in a running state. This is particularly true of vulnerabilities that surface due to deployment configuration or combinations of user actions.

Dynamic testing provides value

- **During the dev/test cycle.** It can identify vulnerabilities not detected by SAST and SCA.
- **For security compliance.** Regulations like PCI require verified dynamic testing.
- **For ongoing production monitoring.** DAST in production can help IT teams detect vulnerabilities before threat actors do.

Organizations need DAST solutions that can continuously test and identify vulnerabilities in running applications, integrate seamlessly with development workflows, and provide accurate, actionable insights without disrupting production environments.

Modern web applications are complex, so it's essential to choose a DAST solution designed for modern application architectures.

Black Duck DAST Solutions

Black Duck provides a comprehensive portfolio of DAST solutions tailored to various stages of the application life cycle. Our solutions are designed to integrate seamlessly into your workflows, providing robust security testing that adapts to your needs.

Polaris fAST Dynamic: Efficient Testing in Development

Polaris fAST Dynamic enhances application security testing within the Black Duck Polaris™ Platform, focusing on ease-of-use and integration with modern development workflows. It is ideal for dynamic testing of applications during the development and testing phases.

- **Easy start.** Polaris fAST Dynamic simplifies scan initiation with minimal configuration, making dynamic testing accessible to a broader range of teams.
- **Smart attack execution.** It intelligently navigates and analyzes web applications, reducing the need for extensive user input and specialized expertise, ensuring comprehensive coverage without the complexity often associated with dynamic testing.
- **Prioritized vulnerability detection.** The innovative DAST engine targets only the most significant vulnerabilities, streamlining the detection process and reducing false positives, prioritizing quality over quantity.
- **Development and test environments.** Polaris fAST Dynamic integrates seamlessly with DevOps workflows, enabling continuous testing and immediate feedback on security vulnerabilities.
- **Rapid scanning.** It offers quick, efficient scans to identify and prioritize vulnerabilities before applications move to production.
- **Ease of Use:** Minimal configuration required, making it easier for development teams to run scans and receive actionable insights.

Polaris fAST Dynamic is particularly effective in development and QA testing environments. It seamlessly integrates with DevOps workflows, allowing continuous security testing without slowing down development. This ensures that vulnerabilities are identified and addressed early in the software development life cycle, enhancing the overall security posture of applications before they move to production.

Continuous Dynamic: Continuous Security for Production Safety

Continuous Dynamic is a robust, cloud-based DAST solution designed for continuous security testing of production applications, ensuring they remain secure in their deployed state.

- **Cloud-based SaaS delivery.** Continuous Dynamic simplifies implementation and scales with your needs.
- **Continuous and on-demand testing.** It automatically tests new functionalities and provides in-depth analysis when needed.
- **Safe for production.** Safely scan production applications without risking data corruption or performance issues.
- **Manually verified results.** Combining AI and ML-enabled verification with expert manual review provides near-zero false positives and ensures developers focus on the highest-risk vulnerabilities.
- **Remediation guidance.** Personalized guidance from security experts ensures swift and effective remediation.
- **Headless operations.** API integration provides seamless automation and results capture.
- **Risk scoring.** Continuous Dynamic provides a comprehensive security score to gauge application security status.
- **Compliance.** It is ideal for applications that are highly sensitive, have stringent compliance requirements, or are mission-critical. Continuous monitoring and AI-verified results ensure the highest level of security.

Continuous Dynamic is essential for continuously monitoring production applications. Its ability to operate safely in production environments ensures that applications remain secure in their deployed state. This makes it an ideal solution for meeting compliance requirements and securing highly sensitive, mission-critical applications. Continuous DAST testing and AI-verified results help maintain a strong security posture.

Managed DAST and Pen Testing Services

Black Duck security testing services include comprehensive dynamic testing to uncover vulnerabilities in running applications, leveraging both automated tools and expert manual testing. These services are flexible and can be customized to meet the specific needs of your organization.

- **Comprehensive DAST testing.** Our extensive dynamic testing uncovers vulnerabilities in running applications, leveraging both automated tools and expert manual testing without the need for source code.
- **Penetration testing.** Extending DAST with pen testing services identifies vulnerabilities beyond what automated scans can find. This testing includes manual testing techniques to ensure comprehensive coverage and accurate results.
- **Expertise and guidance.** Security experts provide personalized remediation guidance and help integrate DAST into your existing workflows and security programs.
- **Customizable engagements.** Services are available on demand, allowing customers to expand their application testing capabilities without the need for extensive internal resources.
- **Flexible.** You can apply risk-based testing (e.g., penetration testing on high-risk applications versus DAST on low-risk applications) to your application portfolio. Plus, you can change the application to test, the test type, and the test depth.
- **Scalable.** Global Assessment Centers offer 24/7 testing availability, and expert guidance and reviews.
- **Subscription-based.** You can have all the app and network testing coverage you need to achieve your risk management goals by bundling all managed testing (DAST, pen testing, SAST, SCA, MAST, secure design reviews, and network security testing) into one annual subscription at a fixed cost.

Managed DAST and pen testing services are ideal for organizations that need flexible and scalable security testing solutions. They provide on-demand security testing tailored to specific application needs and include deep manual testing to complement automated DAST. This ensures comprehensive coverage and accurate results, enhancing the security of applications across the entire software life cycle.

Key Benefits of Black Duck DAST Solutions

Our DAST solutions deliver exceptional value to organizations looking to secure their applications effectively. We offer

- **Extended coverage.** Access a wide range of security testing capabilities, including deep manual testing that goes beyond automated scans.
- **Scalability.** Easily scale your security testing efforts to meet the demands of your development and production environments.
- **Layered security approach.** A multilayered approach to security ensures robust protection by integrating various techniques and tools to address different aspects of application security.

Conclusion

Black Duck offers unmatched expertise and a comprehensive set of dynamic analysis tools and services to help organizations build and maintain secure software. Our solutions and managed security testing services provide robust, efficient, and scalable security testing that integrates seamlessly into your development and production workflows, ensuring that your applications remain secure and compliant in the face of evolving threats.

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.