

ENHANCE CONTAINER SECURITY WITH RED HAT AND BLACK DUCK BY SYNOPSIS

PARTNER BRIEF

“Synopsys is proud to partner with Red Hat in our mission to help customers bring open source risk management to their containerized production environments. Synopsys and Red Hat share a similar vision for the future of application deployment, and together, we look forward to helping organizations overcome the challenges of containerized applications.”

VATSAL SONECHA
VICE PRESIDENT OF BUSINESS
DEVELOPMENT, SYNOPSIS

ABOUT SYNOPSIS

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 lifecycle.

INTRODUCTION

Containers are revolutionizing application packaging and delivery with lightweight technology that is easy to build, deploy, and manage. However, rapid adoption of containers has created security challenges—for example, in validating the contents of container images. When a new vulnerability is discovered, quickly identifying precisely which images and containers are affected is critical.

Early attempts to address these challenges relied primarily on individual container scanning, but this approach cannot scale to enterprise container deployments of hundreds or thousands of images. Instead, organizations are turning to container packaging and Platform-as-a-Service (PaaS) solutions to better manage agile application development and delivery at enterprise scale. To address these needs, Red Hat has partnered with Synopsys to establish a scalable security solution for containerized application delivery.

SOLUTION AT A GLANCE

Black Duck by Synopsys integrates with Red Hat® OpenShift® Container Platform to provide proactive monitoring of all container components. This solution offers better visibility into and control over known open source vulnerabilities inside containers. Using enhanced vulnerability data and risk assessment from Black Duck with Red Hat OpenShift Container Platform, enterprises and independent software vendors (ISVs) can more confidently deploy containers in their IT environments.

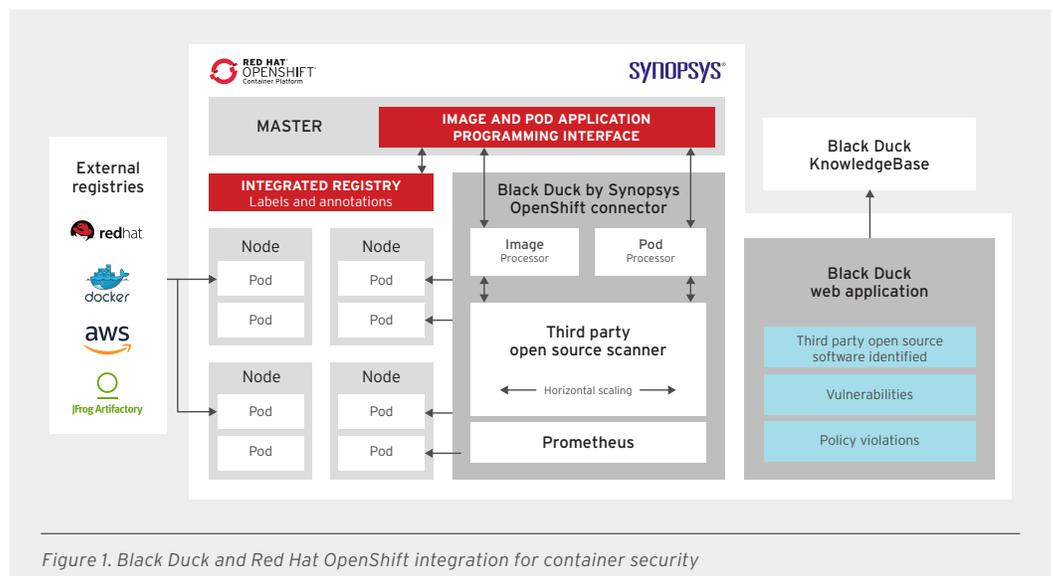
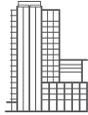


Figure 1. Black Duck and Red Hat OpenShift integration for container security

Red Hat OpenShift Container Platform helps organizations develop, deploy, and manage traditional and cloud-native applications seamlessly across physical, virtual, and public cloud infrastructures. Built on proven open source technologies, this offering helps application development and IT operations teams modernize applications, deliver new services, and accelerate processes.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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Black Duck is the market leader in open source risk management. The Black Duck KnowledgeBase is a comprehensive repository of open source intelligence, with information on millions of projects from over 10,000 independent data sources. Black Duck uses this database to continuously scan and monitor projects, mapping open source activity to new vulnerability disclosures faster than the National Vulnerability Database (NVD).

When integrated with Red Hat OpenShift Container Platform, Black Duck automatically discovers images as they are deployed, performing deep container inspection (DCI) on operating system and application layers to identify security and compliance risks. This capability helps teams secure containers efficiently and at scale.

FEATURES AND CAPABILITIES

RED HAT OPENSIFT CONTAINER PLATFORM DEPLOYED WITH BLACK DUCK

FEATURE	BENEFIT
Enhanced security	Provides vulnerability capabilities beyond National Vulnerability Database requirements—including data on 60,000 more vulnerabilities, faster publish times of 24-48 hours, as well as more metadata and remediation solutions
Integrated Red Hat OpenShift container scanning	Monitors ImageStream and Kubernetes pod events to automatically scan Red Hat OpenShift container images, regardless of source
Annotated image scan results	Annotates container images and pods with vulnerability and policy metadata that can be viewed within the Red Hat OpenShift console or command-line interface (CLI)
Persistent storage	Supports running stateful applications and cloud-native stateless applications
Comprehensive automation	Streamlines and automates application builds, deployments, scaling, and health management
Operational insight	Provides real-time visibility into not just individual containers, but also all Red Hat OpenShift-managed nodes, using Red Hat CloudForms®
Support for collaboration and DevOps	Unites operations and development teams to work together using containers on a single platform
Enterprise scalability	Scales to thousands of instances across hundreds of nodes in a matter of seconds
Container portability	Supports migration of applications created on Red Hat OpenShift Container Platform to easily run in any environment that supports Open Containers Initiative (OCI)-compliant containers
Cloud flexibility	Lets users run applications on top of physical, virtual, or cloud infrastructures—whether public, private, or hybrid

LEARN MORE

For more information on Red Hat and Black Duck by Synopsys joint solutions or to request a demo, visit synopsys.com/red-hat.