

# ENHANCE CONTAINER SECURITY WITH RED HAT AND BLACK DUCK

PARTNER SOLUTION BRIEF

## ABOUT BLACK DUCK

Organizations worldwide use Black Duck Software's industry-leading products to automate the processes of securing and managing open source software, eliminating the pain related to security vulnerabilities, license compliance, and operational risk. Black Duck is headquartered in Burlington, MA, and has offices in San Jose, CA; Vancouver; London; Belfast; Frankfurt; Hong Kong; Tokyo; Seoul; and Beijing.

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## 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 Black Duck to establish a scalable security solution for containerized application delivery, Black Duck OpsSight.

## SOLUTION AT A GLANCE

Black Duck OpsSight integrates Red Hat® OpenShift Container Platform and Black Duck Hub to provide proactive monitoring of all container components. This solution offers better visibility into and control over known open source vulnerabilities inside containers. Using vulnerability mapping 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.

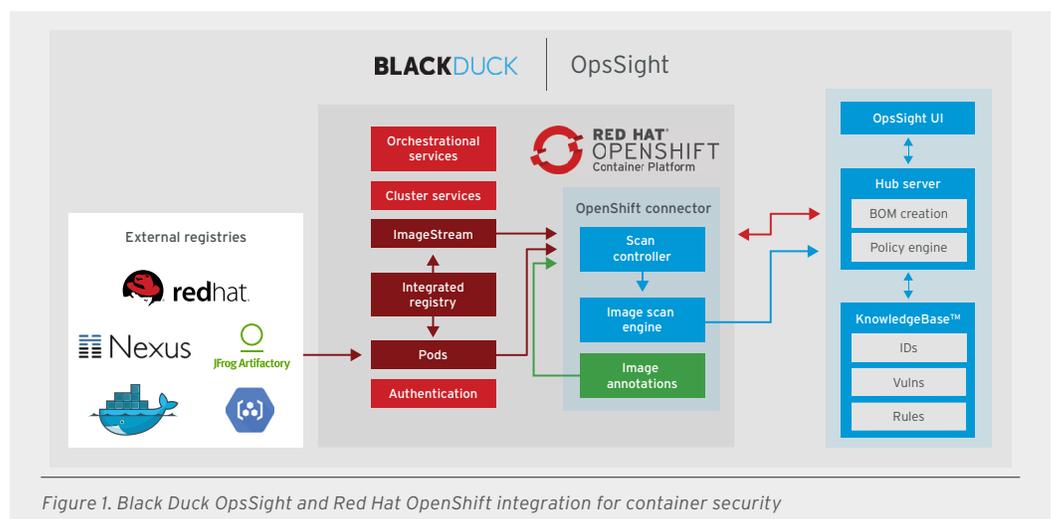
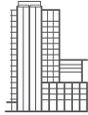


Figure 1. Black Duck OpsSight and Red Hat OpenShift integration for container security

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 OpsSight is an open source security and management solution for the entire container environment that provides visibility into application components and dependencies within base container images. The Black Duck KnowledgeBase is a comprehensive repository of open source intelligence, with information on millions of projects from over 9,000 independent data sources. Black Duck OpsSight uses this database to continuously scan and monitor projects, mapping open source activity to new vulnerability disclosures.

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

## FEATURES AND BENEFITS

### RED HAT OPENSIFT CONTAINER PLATFORM DEPLOYED WITH BLACK DUCK OPSSIGHT

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 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 joint solutions or to request a demo, visit [blackducksoftware.com/redhat](https://blackducksoftware.com/redhat).