

Get more from Red Hat OpenShift using Red Hat Lightspeed

Overview: Red Hat Lightspeed, included with your Red Hat OpenShift subscription, is an operational and security risk management solution that uses predictive analytics and machine learning to proactively identify risks, assess upgrade compatibility, optimize performance and costs, and streamline troubleshooting to enhance system reliability and efficiency.

Organizations increasingly face challenges that come with infrastructure maintenance. Complexities, such as working in fragmentation, interpreting data, handling patching and updates, and always staying security-focused, can be time-consuming and can lead to human error.

In fact, it is common for teams to check systems manually for incorrect configurations and hunt for vulnerabilities. This can feel overwhelming and is not always the most effective way for your systems to be monitored.

Without detailed visibility and analytics across your entire estate, you risk overlooking issues that could affect your operations. However, with the right tools, such as a centralized vulnerability dashboard, you can address these exposures before they become a problem.

How Red Hat Lightspeed complements Red Hat OpenShift

Red Hat® Lightspeed (formerly Red Hat Insights) is an operational and security risk management solution based on Red Hat knowledge, experience, and complex machine learning models that proactively identifies risks so you know where to focus your attention and what to fix while also optimizing your resources to save time and money. Red Hat Lightspeed is already included with your Red Hat OpenShift® subscription.

Here are some ways that Red Hat Lightspeed can help you hit your business goals:

- ▶ **Predictive analytics.** Red Hat Lightspeed uses predictive analytics to identify potential issues and provide proactive recommendations. It analyzes data from your Red Hat OpenShift environment—including configuration settings, logs, and performance metrics—to detect anomalies and predict possible problems. Identifying issues before they occur helps to prevent downtime and improve overall system reliability.
- ▶ **Upgrade risks.** Managing upgrades in complex production Kubernetes environments is a challenging task. The upgrade risk functionality uses machine learning concepts to compare the last 2 hours of a cluster's state against the known history of failed upgrade conditions observed in the fleet of all clusters connected to Red Hat via the OpenShift remote health monitoring feature. It will show a checklist of known risks present in your cluster and provide instructions on how to remove blockers on your path to a smoother upgrade.
- ▶ **Performance optimization.** Red Hat Lightspeed analyzes the performance metrics of your OpenShift cluster and provides recommendations for optimizing resource usage and improving application performance. It helps identify performance bottlenecks, suggests configuration improvements, and offers best practices to enhance the efficiency and responsiveness of your applications running on Red Hat OpenShift.

- ▶ **Cost management.** Red Hat Lightspeed helps optimize your Red Hat OpenShift deployment from a cost perspective. It analyzes cloud and on-premise resource usage and matches that with your customized cost models to provide you detailed reports about your spending and resource usage, forecast future cost and charge back your cluster tenants. By attributing cost to the application owners and optimizing resource allocation, you can reduce unnecessary costs and ensure efficient resource usage.
- ▶ **Simplified troubleshooting.** When issues arise in your Red Hat OpenShift environment, Red Hat Lightspeed helps streamline troubleshooting efforts. It provides detailed information about the detected problems, offers step-by-step remediation guidance, and suggests relevant knowledge base articles and support resources. This helps accelerate the resolution process and reduces the time spent on problem analysis.
- ▶ **Support alerts.** As a Red Hat OpenShift subscriber, you will benefit from Red Hat's support services. Red Hat Lightspeed integrates with Red Hat support and product engineering workflows to alert engineers and support teams directly about potential issues, allowing them to take care of the possible problems without alerting customers.
- ▶ **Security.** Red Hat Lightspeed focuses on security by continuously monitoring for vulnerabilities and potential security risks. It provides insights into security best practices, identifies potential security gaps, and alerts you about security vulnerabilities on the OpenShift code.
- ▶ **Monitor subscriptions.** Use 1 screen to track your annual Red Hat OpenShift Container Platform subscriptions, including your hourly, pay-as-you-go subscriptions for both OpenShift Container Platform and Red Hat OpenShift Dedicated.

In addition, you can use Red Hat Lightspeed advisor to analyze remote health data to provide recommendations covering the infrastructure and service layers. Advisor also provides predictive findings and prescriptive information on how to resolve, and it integrates with notifications, web console, and Red Hat Advanced Cluster Management for Kubernetes.

Red Hat Lightspeed's remote health analytics improves support efficiency and affects product decisions for connected clusters through a more rapid support cycle, safer upgrades, and by reviewing fleet-level analysis to prevent issues while improving product quality and prioritizing new features.

Take advantage of Red Hat Lightspeed

Visit [RedHat.com](#) or speak to a [Red Hatter](#) to learn more about taking advantage of Red Hat Lightspeed. It is already included in your subscription and is simple to set up with your system. Red Hat Lightspeed supports Red Hat installations on-premise, on Amazon Web Services (AWS), and on Microsoft Azure, with more cloud platforms coming soon.



About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. [A trusted adviser to the Fortune 500](#), Red Hat provides [award-winning](#) support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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