

Gain visibility into Red Hat OpenShift environments

“OpsCruise provides us an affordable, engaging, and approachable view that allows engineers to see how their microservices fit into the entire stack.”

—
Matt Surabian
Director,
DevOps Engineering,
Avis Budget Group (ZipCar)

Open source and cloud monitoring tools offer an excellent foundation but require highly skilled engineers to integrate, maintain, and analyze the collected data. Ops teams need intelligence from their observability platform to automatically provide real-time visibility, problem detection without guessing, and a reduction in the manual work required to isolate the root cause.

Modern applications need modern observability

Digital business is driving a fundamental shift to cloud-native applications running on Kubernetes container platforms like Red Hat® OpenShift®. This means more complexity, which leads to an explosion of performance-related events, logs, and data tracing that constantly change as loads change.

Observing cloud-native applications presents challenges, such as:

- ▶ Detecting a condition that may impact a customer-facing service.
- ▶ Identifying whether the alert is from an incident positive or a false-positive.
- ▶ Whether the alert indicates that end users are being affected.
- ▶ Ensuring the operations team is fixing the root cause rather than addressing the symptoms that caused the alert.

Traditional monitoring tools do not work because these tools are from an era of monolithic applications and static infrastructure. They are expensive, intrusive, and generate a great deal of noise. Disjointed, isolated monitoring of discrete aspects of the application means that while there is a lot of data, there is also relatively poor insight into the application state, resulting in a mostly manual process of resolving problems.

Virtana OpsCruise: A modern platform for cloud-native observability

Virtana OpsCruise is a modern observability platform that increases the stability and performance of Red Hat OpenShift Kubernetes workloads. Using predictive artificial intelligence (AI) and open source data collection, OpsCruise provides a modern solution to cloud-native observability. Built for Red Hat OpenShift Kubernetes observability and empowering understanding of workloads and their issues, OpsCruise is certified to run on Red Hat OpenShift, an industry-leading enterprise Kubernetes platform.

How OpsCruise works

OpsCruise collects information from the application, Red Hat OpenShift Container Platform, and the infrastructure layer by tapping into the monitoring and configuration environment with lightweight gateway pods that are added to the Kubernetes cluster.

Gateway pods communicate with Red Hat OpenShift Kubernetes, cloud, metrics, and log environments and send information, in secure messages, to the Software-as-a-Service (SaaS) backend. The user accesses the user interface (UI) using a standard browser. All connections are outbound and use secure sockets layer and transport layer security (SSL/TLS). Alerts are sent to popular services like email, PagerDuty, Slack, and ServiceNow. Agentless telemetry and configuration ingestion is applied using open standards and tools like Prometheus, Loki or ELK, Jaeger, Kubernetes, Extended Berkeley Packet Filter (eBPF), and Istio.

OpsCruise runs on Red Hat OpenShift: Actionable observability for applications

With OpsCruise running on Red Hat OpenShift, organizations can gain deeper visibility into every layer of their Red Hat OpenShift environments, allowing them to reduce troubleshooting time and confidently resolve performance issues. This open cloud-native observability platform allows operations and application teams to troubleshoot all of their application components in context with configurations, connections, metrics, logs, traces, and changes. OpsCruise brings everything into 1 platform, meaning application teams no longer need to swivel across multiple tools to understand and analyze the state of their applications. OpsCruise also provides a “time travel” feature to address temporal blind spots and let DevOps look back to see changes that are often the source of problems.

OpsCruise on Red Hat OpenShift can be installed on-premise and in a cloud environment, with Microsoft Azure Red Hat OpenShift or Red Hat OpenShift Service on AWS. Customers can take advantage of OpsCruise observability anywhere they use Red Hat OpenShift.

What OpsCruise delivers for Red Hat OpenShift customers

- ▶ Best-in-class contextual Kubernetes monitoring comes with zero touch configuration and automatic discovery and monitoring of workloads running on Red Hat OpenShift Container Platform.
- ▶ Predictive behavior modeling learns the application’s behavior to surface problems across application components, Red Hat OpenShift, and the supporting infrastructure.
- ▶ Automated causal analysis proactively links unexpected behavior changes within the application estate and ties it to service-level objective (SLO) breaches.
- ▶ OpsCruise can be installed and up and running in minutes via HELM. There is no need to deploy agents on the host, Kubernetes side cars, or change code.




Learn more about observability solutions from Red Hat and Virtana

Contact leslie.maher@virtana.com or [request a demonstration](#).



About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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