SPYDERBAT

Spyderbat Flashback

Visualize your cloud deployments over time to automatically pinpoint drift, errors, and risk

Overview

For teams monitoring and troubleshooting issues in Kubernetes and cloud environments, Spyderbat Flashback is a critical capability for your Day 2 Operations. Spyderbat Flashback monitors and records activities within and across your Kubernetes environment. Like a DVR, security and platform team use Flashback to review a visual history of app activity, so they can see application deployments, identify drift, and immediately pinpoint the root cause of operational and security runtime issues.

| Challenge	Flashback Benefits
K8s runtime visibility over time	See the details of all your cluster, namespace, pod, container and network runtime activity assembled into an interactive real-time and historical map.
Root cause analysis with full K8s and cloud context	View the process lineage of any workload behavior across different user sessions, systems, and even long gaps in time—automatically, instantly, and without digging through logs
Understand workload behaviors	See and validate the effective user rights and exposed environmental variables for any process executed by your K8s worker nodes.

Technical Details

Flashback is the visual representation of the Spyderbat Behavioral Web, a time-based graph that assembles eBPF data and contextual sources into their step-by-step sequences.

1 The Spyderbat Nano Agent uses detailed, kernel-level, eBPF—not coarse snapshots—to capture every running process with its container ID.

2 Spyderbat assembles every process and network connection with its predecessor to form the Behavioral Web.

3 Flashback marries the processes' container IDs with contextual information from the Kubernetes API, to understand the pod, namespace, cluster, and other details of the container.

4 Spyderbat maintains a stateful understanding of all process and network activity over time, enabling immediate visibility to even short-lived workloads for troubleshooting and root cause analysis.
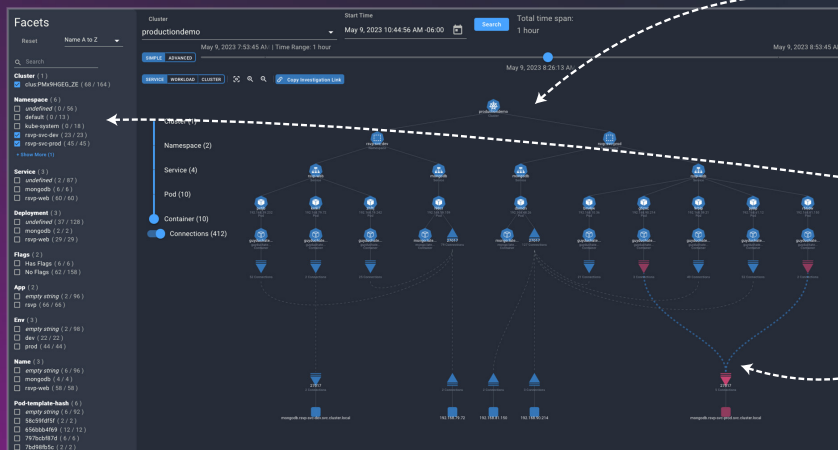
1 Flashback's time slider presents the actual runtime execution within the cluster at any point in time, even months prior.

2 Flashback's facets allow an operator to focus on a specific cluster, namespace, service, deployment, or pod.

3 In and outbound network connections are shown, and grouped based on common destinations or sources.

Customer Case Study

The Situation: A third-party component used in a web application microservice suddenly generated hundreds of error messages per minute.

The Impact: Features of the web application dependent on the third-party component stopped working as designed, interrupting engineers and platform teams who had to go manually investigate.

The Resolution: In just 4 minutes, using Spyderbat Flashback, the team pinpointed the exact source of the error: An updated library had been installed, which changed the write permissions of just a single folder used by the 3rd party component.

To see Flashback visualize your Kubernetes environment, and try other key capabilities of the Spyderbat Platform, **start your free trial today: www.Spyderbat.com**