

# Intelligent Observability for Modern Applications

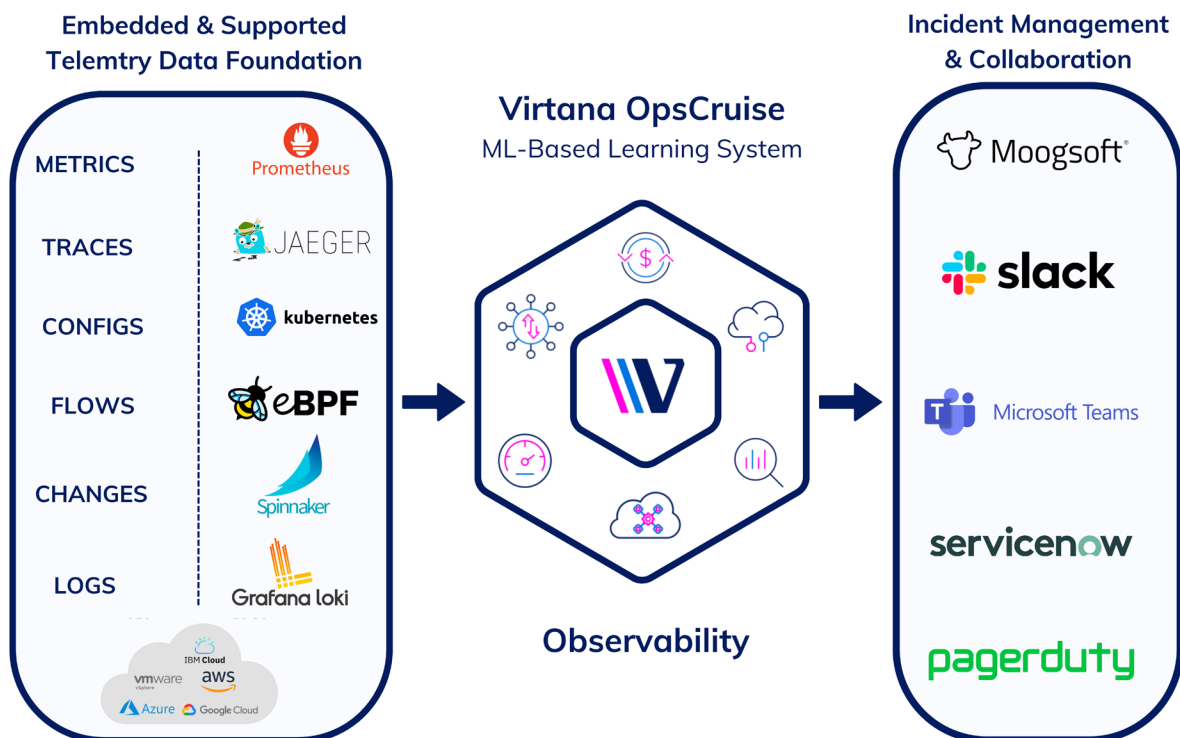
## IT Ops Challenges with Modern Cloud Applications

Digital business is driving a fundamental shift to cloud-native applications to leverage scale, agile deployment, and management. This class of application architecture presents a larger number of thin components which communicate with each other in myriad ways, resulting in an explosion of performance-related event, log, and tracing data and creating unanticipated bottlenecks that move around the system as load conditions change.

These changes create enormous challenges for even the most sophisticated operations (Ops) teams to manage the performance and uptime of their applications. Current tools are unable to evolve to meet these challenges.

## Autonomous Application Performance

Virtana OpsCruise addresses the challenge of managing application performance by providing the Site Reliability Engineer and Ops with a first-of-its-kind autonomous dynamic performance assurance platform. Using its patented application-centric approach, Virtana OpsCruise delivers automated visibility into application dependencies, detecting problems and isolating causes to reduce MTTD and MTTR. Our platform is unique in providing intelligent observability for cloud-native applications:





- 1. Built natively on open source and standards-based (OTel) monitoring instrumentation** for Kubernetes, such as Prometheus, Istio, Fluentd, Loki, and Jaeger, without using any proprietary agents or touching the application code.
- 2. Coherently integrates configuration, metrics, flows, logs/events, and trace data** and automatically discovers all real-time dependencies across application services.
- 3. Provides real-time application performance monitoring** using operational 'flow tracing' when code instrumentation is not possible, as well as unique TracePath technology, when tracing is used, to enable real-time problem detection and resolution.
- 4. Uses a novel ML-based application profiling that captures an application's Behavior Model** that is used to predictively detect the onset of problems, significantly reducing noise from false alerts.
- 5. Provides automated Root Cause Analysis using an AI decision tree** that uses knowledge of diagnostics and learned aspects of the application to isolate causes when any anomalies are detected to reduce time to resolution.
- 6. Leverages unique time travel capability** that captures complete application structure and behavior history to immediately identify changes that result in application problems, enabling more agile DevOps.

The resulting benefits positively impact both the top and bottom line: increased uptime through proactive problem resolution to meet performance SLAs of customer-facing applications and services; greater organizational agility from improved efficiency and predictability of DevOps process for new applications. Virtana OpsCruise is low friction and is available as-a-service or as software on-premises.

## About Virtana

Virtana provides the industry-leading, applied hybrid observability platform that accelerates infrastructure innovation through deep-system data and centralized visibility. Virtana's technology is supported by issued patents, and Gartner has recognized us as a leading Observability vendor. Company leaders are industry veterans and innovators with expertise in SRE, cloud-native technologies, and AI/ML. Its unified multi-cloud management solution, Virtana Platform, simplifies the optimization, migration, and monitoring of application workloads across public, private, and hybrid cloud environments. The cloud-agnostic SaaS platform allows enterprises to plan their cloud migrations efficiently and then right-size workloads across their hybrid cloud infrastructure for performance, capacity, and cost. Most organizations realize a 35% reduction in hybrid infrastructure costs or more within the first 60 days of use and a 95% reduction in MTTR.



info@virtana.com |



+1-888-522-2557 |



virtana.com

