# Cisco Cloud Observability with Spectro Cloud Palette

#### End-to-end observability as part of day one automated Kubernetes® operations and not just an afterthought!

Modern application architectures enable teams to innovate quickly with greater agility while delivering improved reliability. At the same time, building, deploying and managing Kubernetes-based applications across the lifecycle is complex, especially in production environments where infrastructure, application availability and performance are key priorities.

# Building and deploying Kubernetes in a distributed world

Kubernetes has become a cornerstone in the modern cloud infrastructure, particularly for its capabilities in container orchestration. It offers powerful tools for the automated deployment, scaling and management of application containers. But with the increasing complexity in containers and services, the need for robust observability and management tools becomes paramount to overcome common challenges.

Deploying production Kubernetes can be a constant struggle of controlling the complexity of lifecycle management across diverse environments while ensuring the health and availability of the complete infrastructure and application stack where there is no room for failure.

# Cisco Cloud Observability and Spectro Cloud Palette

Designed to eliminate data silos, Cisco Cloud Observability provides technology teams with crossdomain visibility with correlated MELT (metric, event, log, trace) data and AI/ML-driven insights to simplify the complexity of observing the performance of modern applications, multi-cloud Kubernetes<sup>®</sup> and hybrid cloud infrastructure. Business transaction insights enhance the application observability experience by combining business transaction monitoring and AIOps-derived insights drawn from OpenTelemetry<sup>™</sup> data, enabling teams to identify and prioritize critical business flow.

Spectro Cloud's Palette is a next-gen enterprise Kubernetes management platform that simplifies the deployment and management of Kubernetes clusters, wherever they are – in the cloud, bare metal and



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virtualized data center, and at the edge. Palette works with any new or existing Kubernetes cluster, any distribution or cloud native integration, all declaratively managed across the complete stack, with native day zero to day two tooling. To ensure all your Kubernetes environments are always healthy, Cisco Cloud Observability now integrates with Palette out-of-the-box, seamlessly correlating cloud native infrastructure and application performance across any location and with a few clicks, for peace of mind.

# Instant visibility through your entire stack, wherever it resides



The partnership between Cisco and Spectro Cloud delivers day-zero operational simplicity to organizations looking to provide governance to Kubernetes deployments and to solve the challenge of consistent observability across the full stack.

- Out-of-the-box integration with Spectro Cloud<sup>®</sup> Palette for end-to-end Kubernetes observability across any environment.
- Correlate Kubernetes infrastructure and APM services.
- Unified management across the full Kubernetes stack.
- Visualize large-scale Kubernetes clusters (1000s of pods and containers).
- · Gain proactive lifecycle diagnostics and governance.

### Addressable use cases

Use case	Description
Modern application monitoring Quickly identify the fault domain of customer impacting issues across the application and Kubernetes infrastructure.	For customer, DevOps, CloudOps, ITOps, Platform Engineering and SRE teams that have imminent plans to move new applications to AKS or EKS (Kubernetes) and interest to leverage OpenTelemetry standards and monitoring those application workloads that are in AKS (Azure Kubernetes Services), EKS (Elastic Kubernetes Service) and tracking cloud plus infrastructure metrics. These users will have a need to monitor performance of microservices-based cloud native applications and distributed applications leveraging cloud technologies that are hosted on public or private clouds, cloud native application performance and continually optimize user's digital experiences, connect IT teams to business results through visibility into cloud native application user experience and correlate cloud native application performance to app infrastructure.
Application dependency monitoring Quickly identify the fault domain of customer impacting issues across the application, infrastructure, end user client and internet.	For customers with AppOps, NetOps, ITOps users who want to clearly see health scores related to network and applications in one view and understand the performance of managed and unmanaged (third-party) application services and APIs, including Internet and cloud network performance. Gain end-to-end network visibility across enterprise, Internet and end user devices. Correlate insights from performance data to proactively remediate issues. Ensure uptime with real-time global outage detection. Note that other Cisco solutions, such as Thousand Eyes, may be required.
Power Kubernetes anywhere Correlate performance and user experience across hosted and cloud dependent services to proactively remediate issues.	For customers and AppOps, InfraOps users struggling between multi-cloud environments. Monitor the performance of traditional and hosted hybrid applications that utilize traditional infrastructure and hybrid cloud. Monitor application performance and continually optimize the digital experience. Connect IT teams to business results through user experience visibility. Correlate application performance to your app infrastructure.

#### The Cisco advantage

Cisco is uniquely positioned to deliver full-stack observability to customers. More than any other company, Cisco is defining the market. Cisco Cloud Observability, powered by the Cisco Observability Platform offers cross-domain visibility that brings teams together with real-time ingestion of massive data streams of MELT from normal business operations.

Most importantly, it provides a view relative to business context. According to Gartner, regarding the broader applied observability movement, "When applied systematically, it can reduce the latency for response and optimize business operations in real time." With the Cisco Observability Platform, business context becomes an integral part of monitoring and visibility outcomes. A vendor-agnostic solution, the Cisco Observability Platform brings data together from the application, networking, infrastructure, security, cloud, sustainability and business sources. Customers get in-context, correlated and predictive insights so they can reduce time to resolve issues, optimize experiences and minimize business risk.

In addition, it provides the flexibility of extending Cisco Observability Platform for creation of new or custom business use cases including monitoring and analysis of APIs. It enables extensibility from queries, data ingestion pipelines and entity models all the way to APIs and a composable UI framework.

"Developers can use the platform to enrich existing entities, their attributes, and relationships or to create new ones. These capabilities make it easy to create, launch and monetize custom use cases as modules on Cisco Observability Platform, spawning an ecosystem of more customers and partners."

Liz Centoni
EVP Chief Strategy Officer and GM Applications, Cisco

Get started today

For more information, **contact us** today to schedule a demo and request a trial.

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