Unified Observability by VMware Aria Operations for Applications

At a glance

VMware Aria Operations for Applications is a platform for enterprises to deliver unified observability as a service across all their engineering teams. It is purpose-built for modern apps running on enterprise multi-cloud at scale.

Full-stack visibility with traces, metrics and logs for more actionable insights at scale

VMware Aria Operations™ for Applications (formerly VMware Tanzu® Observability™) is a unified observability platform delivering full-stack visibility using metrics, traces and logs across distributed applications, application services, container services, and multi-cloud based on public, private and hybrid cloud infrastructures.

VMware Aria Operations for Applications brings observability specifically designed for enterprises needing monitoring, observability and analytics for their cloud native applications and multi-cloud environments. With the trinity of metrics, traces and logs being available in one unified solution, users get more actionable insights into their system and can identify the root cause of an issue quickly to reduce mean time to resolution (MTTR) at massive scale.
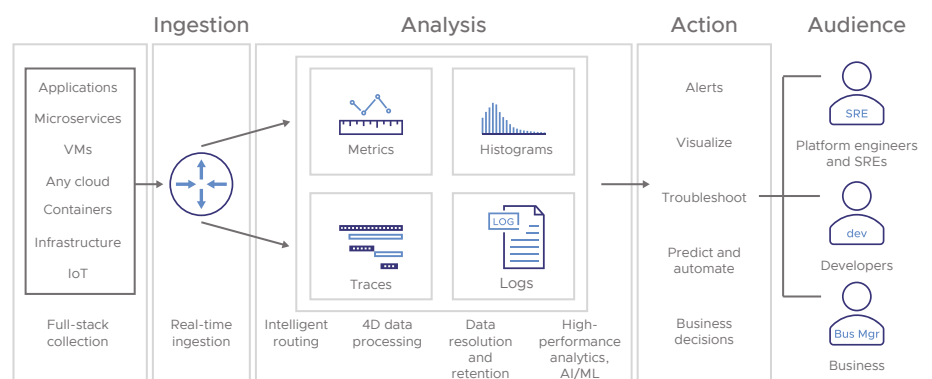

Figure 1: VMware Aria Operations for Applications unifies metrics, traces and logs.

Modern monitoring and observability for modern applications

Metrics, traces and logs are the core of monitoring and observability. With logs included in VMware Aria Operations for Applications, site reliability engineers (SREs), operations, and developers get a unified view across teams to troubleshoot and mitigate production issues. Insight into logs is critical as logs provide more in-depth information, providing comprehensive records of all events and errors during the software lifecycle. Logs provide answers to when a problem occurs as well as which events or trends it correlates with.

For complex environments, especially ones that need to be always on, metrics, traces and logs help organizations stay on top of these dynamic environments with unified observability. VMware Aria for Operations provides the following key business benefits:

• Provides single-source-of-truth visibility for IT and application owners across various sources to drive greater business insights and innovation by bringing together end-to-end logs, metrics and traces

• Reduces the toil associated with incident management, particularly around root-cause analysis, improving uptime, faster issue resolution, and greater business agility

• Provides a modern platform to address compliance and security for cloud applications while containing costs and eliminating siloed products and solutions

Key features

Advanced AI/analytics and query language

The AI/analytics and query language of VMware Aria Operations for Applications make it easy to ask open-ended questions about your data. Turn any query immediately into an alert or a dashboard chart automatically.

Analytics insights on full-stack metrics, histograms and events

VMware Aria Operations for Applications gathers metrics from any corner of your environment, including microservices, legacy applications, containers, serverless, multi-cloud environments, and data center infrastructure. Use histograms to see outliers within high-velocity metrics. Correlate it all against system events.

Insights on distributed application tracing and logs

VMware Aria Operations for Applications records full distributed traces of your cloud native applications, correlating it all to metrics and logs within application service maps. Troubleshoot and optimize application performance faster with unified views.

Smart alert creation and real-time streaming (centralized or by self-service)

VMware Aria Operations for Applications provides an advanced and accurate alerting platform powered by analytics and query language. DevOps engineers can define smart, adaptive, multi-threshold alert conditions for alerts that matter, eliminating morale-depleting alert fatigue.

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Superior user visualizations and real-time experience

VMware Aria Observability for Applications delivers instantaneous chart rending and real-time updating, enabling fast, iterative incident triage. Create and customize a dashboard from a simple but powerful widget-enabled tool bench. Scale self-service dashboards to thousands of active users across your organization.

Full data fidelity across the entire telemetry store with no down-sampling

VMware Aria Operations for Applications retains full granularity of all your telemetry (1-second bucket default, sub-1-second with histograms) as data is archived. No down-sampling preserves 100 percent data fidelity. Accurately baseline to seasonality and historical trends.

Massively integrated with more than 250 prebuilt integrations

VMware Aria Operations for Applications is source-agnostic for all types of telemetry, using open standards and APIs. It also comes with more than 250 prebuilt integrations (plus dashboards, alerts) for applications, services, tools and infrastructure, full stack. Get started fast using these integrations, and easily customize as needed.

Key use cases

Enterprise DevOps teams can confidently deliver unified observability across their organizations with VMware Aria Operations for Applications. Here are some of the critical use cases for everyday observability.

Kubernetes monitoring

Run performant and reliable Kubernetes environments with full-stack visibility of nodes, pods and containers. Enjoy automated application context out of the box.

Application monitoring

Deliver exceptional service-level agreements (SLAs) and eliminate customer-impacting issues through flexible tracing and analytics using traces and metrics.

Multi-cloud observability

Get out-of-the-box, real-time visibility across all major public cloud platforms—Amazon Web Services, Microsoft Azure, and Google Cloud Platform—with more than 50 public cloud integrations and prepackaged dashboards showing key metrics for all major cloud services. Monitoring multiple cloud services and platforms in a single solution has never been so easy.

Get started today

Start your free unified observability trial.