# VMware Aria Operations for Logs

## Intelligent log management for cloud, infrastructure and applications

## At a glance

VMware Aria Operations™ for Logs (formerly VMware vRealize® Log Insight™) delivers heterogeneous and highly scalable log management with intuitive, actionable dashboards, sophisticated analytics, and broad third-party extensibility, providing deep operational visibility and faster troubleshooting. This solution is available as a software-as-a-service (SaaS) or an on-premises deployment.

## Key benefits

• Rapid troubleshooting and root cause analysis within seconds; in recent internal testing, VMware Aria Operations for Logs was three times faster than the leading solution in query tests across terabytes of data

• Intuitive and easy-to-use graphical interface for simple interactive searches as well as deep analytical queries

• Extensible across physical, virtual, native and public cloud environments, enabling admins to connect to everything in their environment (e.g., OS, apps, storage, network devices) and providing a single location to collect, store and analyze logs at scale

• Built-in knowledge and native support for VMware vSphere® makes VMware Aria Operations for Logs the best logging solution for VMware environments

## Business challenges

The scale of machine-generated data increases exponentially as enterprises span out infrastructure and application deployments across physical, virtual and cloud environments. But at the same time, because of the data volume and distribution, it's become overly complicated to make any sense of it. VMware Aria Operations for Logs provides the ability to make sense of all the log data. It solves all these issues by utilizing predictive analytics, machine learning, and root-cause analysis tools across physical, virtual and multi-cloud environments for faster problem resolution.

## Problems with traditional log management tools

Traditional log management tools are not suitable for a dynamic virtualized or hybrid cloud environment because:
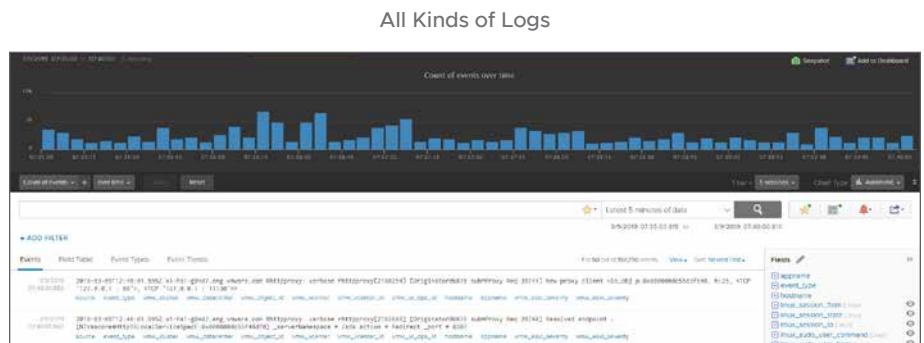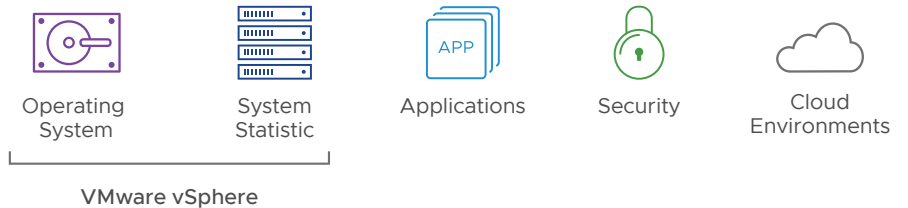
• Traditional tools do not leverage logs and other machine data strategically to generate insights and troubleshoot IT infrastructure issues because machine-generated log data is massive in scale and difficult to capture and manage.

• Siloed approaches to virtual and physical infrastructure management lead to finger-pointing and fire drills.

• Other solutions may need additional piecemeal software to work with VMware vSphere, and may not always support the latest version.

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## Business benefits

• Predictable pricing model that includes an unlimited amount of data and does not require buying licenses based on peak usage and worst-case scenarios

• Lower operating expenses and higher operational efficiency, from significant reduction in troubleshooting times to improved mean time to resolution, reduced manual effort, and automated alerts to prevent outages and downtime

• Flexible consumption, ROI, and value maximization by using with VMware Aria Operations, bringing together best-of-breed tools for comprehensive operations management

## Solution overview

VMware Aria Operations for Logs addresses the challenges mentioned in the previous section and enables improved quality of service, operational efficiency, and faster root-cause analysis.

Operating System   System Statistic   Applications   Security   Cloud Environments

**VMware vSphere**

**All Kinds of Logs**



**Figure 1:** VMware Aria Operations for Logs provides a single location to collect, store and analyze unstructured data from OS, apps, storage, network devices and more at scale.

| Table 1: Key features and capabilities | | | | |
|---|---|---|---|---|
| | VMware Aria Operations for Logs for NSX | VMware Aria Operations for Logs (SaaS) | VMware Aria Operations for Logs (on-premises) | VMware Cloud™ on AWS (SaaS) |
| Licensing | 1 CPU of NSX = 1 CPU of limited VMware Aria Operations for Logs for NSX | Ingestion and storage | VMware ESXi™ sockets/OSI | Hosts |
| **Platform** | | | | |
| Dashboards | • | • | • | • |
| Custom dashboards | • | • | • | • |
| Interactive analytics | • | • | • | • |
| vSphere integration (collect from VMware vCenter®, ESXi) | • | • | • | • |
| VMware Aria Operations integration | • | • | • | • |
| Kubernetes log collection querying and analytics | • | • | • | • |
| Alerting | • | • | • | • |
| Machine learning/ analytics | • | • | • | • |
| Active Directory integration | • | • | • | • |
| Role-based access control | • | • | • | • |
| Query API | • | • | • | • |
| Customer experience improvement consent | • | • | • | • |

| Table 1: Key features and capabilities | | | | |
|---|---|---|---|---|
| Agents (Logstash, Fluentd, Fluent Bit, VMware Aria Operations for Logs) | | • | • | • |
| NSX logs and content packs | •[1] | | | |
| **Advanced features** | | | | |
| Automated root-cause analysis | | • | | • |
| Scheduled dashboard reports | | | • | |
| Partitioning | • | • | • | • |
| Clustering | • | • | • | • |
| High availability | • | • | • | • |
| Event forwarding | • | • | • | • |
| Archiving | • | • | • | • |
| Customizable data retention | • | • | • | • |
| **Content packs** | | | | |
| Native public cloud | | • | | • |
| Content pack marketplace | • | • | • | • |
| VMware content packs | • | • | • | • |
| Import custom content packs | | • | • | • |
| Third-party content packs | | • | • | • |

1. Full VMware Aria Operations for Logs, but end-user license agreement (EULA) enforced to only vSphere and NSX events. VMware Aria Operations for Logs license is only good for the vSphere and NSX content packs.

## For more information or to purchase VMware products

Call 877-4-VMWARE (outside North America, +1-650-427-5000), visit vmware.com/products, or search online for an authorized reseller.

Visit the VMware Aria Operations for Logs product page for more information.

For a complete list of third-party content packs and extensions, visit VMware Marketplace.

## Key capabilities

- Integrates with VMware Aria Operations to bring unstructured and structured data together for enhanced end-to-end operations management

- Integrates with VMware and third-party extensions available on VMware Marketplace™

- Provides built-in knowledge of vSphere and other VMware products, such as VMware NSX®, VMware vSAN™, VMware Aria Operations, VMware Aria Automation™, and VMware Horizon® View™

- Collects and analyzes all types of machine-generated log data (e.g., application logs, network traces, configuration files, messages, performance data, and system state dumps)

- Is highly scalable, designed to handle big data

- Automatically chooses the best visualization for your data, saving you time

- Pinpoints and tracks potential issues before they arise via automated alerts

- Adds structure to unstructured log data, enabling administrators to troubleshoot quickly, without needing to know the data beforehand

- Delivers real-time monitoring, search and log analytics, coupled with a dashboard for stored queries, reports and alerts, enabling correlation of events across the IT environment

- Provides machine learning-based Intelligent Grouping, which groups related data together to enable high-performance searching for faster troubleshooting across physical, virtual and cloud environments

- Allows customizable data retention, helping users improve compliance with license agreements and internal security policies, as well as avoiding unnecessary storage consumption