

VMware Aria Operations

(Formerly vRealize Operations)

VMware Aria Operations Packaging

	STANDARD	ADVANCED	ENTERPRISE	SAAS ¹
Standalone	Per VM/ Per CPU	Per OSI/ Per CPU	Per OSI/ Per CPU	On demand; 1-, 2-, 3-, 4- or 5-year SaaS
Available in Suite		VMware Aria Suite/ vCloud Suite Standard, Advanced (PLU)	VMware Aria Suite/ vCloud Suite Enterprise (PLU)	vCloud Suite Subscription; VMware Aria Universal Suite™
Platform				
Single Sign-On	•	•	•	•
Cloud Proxy	•	•	•	•
Scale-Out Operations Platform	•	•	•	•
Customizable Dashboards, Reports and Views		•	•	•
Custom VM Profiles		•	•	•
Custom Webhook Payload Templates		•	•	•
Custom email notification templates		•	•	•
In-app Product Guides				•
VMware Cloud: Workload Balancing, Performance, Capacity/Cost Management, Migration Planning, Troubleshooting, Configuration and Compliance				
VMware Cloud on AWS		•	•	•
Azure VMware Solution		•	•	•
Google Cloud VMware Engine		•	•	•
Oracle Cloud VMware Solution		•	•	•
Performance				
Performance Monitoring and Analytics	•	•	•	•
Manual Workload Optimization	•	•	•	•
Visualization: Out-of-the-Box Dashboards, Views, Reports, Heat Map, Performance Charts	•	•	•	•
Predictive DRS and DRS Management	•	•	•	•
Advanced APIs: Resource/Data Addition, Report Generation and More		•	•	•
Super Metrics, Metric Correlation, Relationship Mapping		•	•	•
Built-In High Availability (Automated Failover of Platform Nodes)		•	•	•

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Business and Operational Intent-Based Automated and Schedulable Workload Balancing and Optimization		•	•	•
Host-Based Placement		•	•	•
Automation Central		•	•	•
Automated Actions		•	•	•
Monitoring of OS Resources using Telegraf (CPU, Disk, Memory, Network)		•	•	•
Service and Process Monitoring (OS level only)		•	•	•
Physical OS Monitoring with Telegraf		•	•	•
Continuous Availability		•	•	•
Capacity & Cost				
Real-Time Predictive Capacity Management, Including Trending, Metering, Rightsizing, Optimization	•	•	•	•
What-If Scenarios for Adding/Removing VMs	•	•	•	•
Fine-Grained Cost Analytics for Reclamation, Planning and Public Cloud Cost Comparison		•	•	•
What-If Scenarios: • Hardware Procurement and Decommission • vSAN/HCI Planning Scenarios • Migration to VMware Cloud on AWS, Azure VMware Solution, Google Cloud VMware Engine, AWS, Azure, Google, IBM, or VMware Cloud Provider™ Program Partners, and Custom Clouds		•	•	•
Multiple What-If Stacked Scenarios		•	•	•
Troubleshooting				
Native Ping Adapter	•	•	•	•
Guided Remediation	•	•	•	•
Troubleshooting Workbench	•	•	•	•
Near Real-Time (20 Seconds) Monitoring				•
Compliance				
FIPS 140-2 Compliance	•	•	•	
vSphere Security and Compliance, Including DISA, FISMA, ISO, CIS, PCI and HIPAA	•	•	•	•
Custom Compliance Templates		•	•	•
Automated Compliance Drift Remediation		•	•	•

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Integrations				
VMware Aria Operations for Integration	•	•	•	Integrates with VMware Aria Operations for Logs
VMware and Third-Party Infrastructure Management Packs: Compute, Storage	•	•	•	•
vSAN Overview and Migration Dashboards	•	•	•	•
vSAN: Workload Balancing, Performance, Capacity/Cost Management, Planning, Troubleshooting and Compliance, what-if scenarios		•	•	•
vSAN HCI Mesh Integration		•	•	•
Integration with VMware Aria Automation for Initial and Ongoing Workload Placement		•	•	•
ServiceNow Integration		•	•	•
Slack Integration		•	•	•
VMware Skyline™ Integration		•	•	•
Out-of-the-Box Discovery, Monitoring and Troubleshooting for vSphere 7 with Tanzu		•	•	•
VMware Aria Automation™ Integration		•	•	Integrates with VMware Aria Automation
SDDC and Cloud Pod Health Management Pack		•	•	•
VMware Aria Operations Integration for CloudHealth® by VMware		•	•	•
VMware Aria Operations Management Pack for CloudHealth®		•	•	•
VMware Aria Automation Orchestrator™ Management Pack		•	•	•
VMware Site Recovery Manager™ and vSphere Replication™ Management Packs		•	•	•
Kubernetes Management Pack: Monitoring for VMware Tanzu Kubernetes Grid™, OpenShift, Kubernetes on Amazon EC2, Azure, Google VMs and Others		•	•	•
VMware and Third-Party Infrastructure Management Packs: Storage, Networking, Converged/Hyperconverged as well as Non-vSphere Hypervisors ²		•	•	•
Integration with VMware Aria Operations for Networks for Application Discovery and Network Alerts			•	Integrates with VMware Aria Operations for Networks
Monitoring and Troubleshooting for Applications with Open-Source Applications			•	•
Out-of-the-Box Monitoring and Troubleshooting for Curated Applications with Telegraf Agent			•	•
Multi-Cloud Monitoring: AWS, Azure, and Google Cloud Platform			•	•
VMware and Third-Party Database, Middleware and Application Management Packs			•	•
Integration with NSX-T endpoints using IPv6				•

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Applications				
Application Performance Management Tool Integration (AppDynamics, Datadog, Dynatrace, New Relic)			•	•
Service Discovery and Application Dependency Mapping				•
Synthetic Monitoring				•
Rule-based application discovery				•

1. Features shown are for the Enterprise editions of VMware Aria Operations (deployed as SaaS), vCloud Suite Subscription, and VMware Aria Suite.

VMware Aria Operations Glossary

AI Engine	The application of data science and predictive analytics to IT operations problems. The AI engine automates and enhances IT operations by applying analytics to data collected from infrastructure and applications to automatically detect and react to issues in real time, including performance monitoring, capacity management, anomaly detection and remediation.
VMware Cloud	The ideal architecture for private and hybrid clouds. Pioneered by VMware and recognized by the industry and analysts, VMware Cloud extends virtualization concepts—abstraction, pooling, and automation—to all data center resources, including compute, storage, and networking. The VMware SDDC consists of vSphere, vSAN and VMware NSX®.
Hybrid Cloud	Private and public cloud platforms working in conjunction to offer consistent infrastructure with consistent operations. Key VMware hybrid cloud offerings include VMware Cloud on AWS and VMware Cloud Foundation, as well as VMware Cloud Provider Program clouds based on vSphere.
Multi-Cloud	The use of more than one public cloud service provider along with an on-premises data center and hybrid cloud.
Operations Platform	The best product to manage your VMware SDDC and hybrid cloud environment, including monitoring, troubleshooting, capacity, and configuration compliance.
Visualization: Health Map, Performance Charts and so on	Numerous out-of-the-box dashboards are driven by widget visualizations and workflows that allow for the fastest troubleshooting and firefighting possible.
Policy Management	Allows you to manage the parts of your environment based on your business needs. Different settings/configs can be used for your production, staging, test, environment (e.g., clusters).
Performance Monitoring and Analytics	Out-of-the-box alerts and intelligent analytics.
Capacity Management	Visualize CPU, memory, and disk utilization with real-time predictive analytics to project time remaining and capacity remaining. Get a view of current total cost of ownership and cost savings opportunities with built-in cost analytics. Take actions to reclaim unused capacity such as idle VMs, snapshots and powered-off VMs. Rightsize VMs up or down to assure performance or save costs. Build what-if planning scenarios to model adding new VMs, purchasing hardware or migrating workloads to public cloud such as AWS or VMware Cloud on AWS.
Continuous Availability	The ability to stretch a VMware Aria Operations cluster across fault domains, which allows a VMware Aria Operations cluster to survive the failure of a fault domain.
Workload Balancing	Allows you to run your data center based on operational and business intent: <ul style="list-style-type: none"> • Drive better application performance • Compliance • License enforcement (save money) • Consolidation (get more out of your hardware investment)
vSphere Health Monitoring and Configuration Change	<p>VMware Aria Operations evaluates the data in your environment, identifying trends in object behavior, calculating possible problems and future capacity needs for objects in your system based on those trends, and alerts you when an object exhibits defined symptoms.</p> <p>Compliance is used to monitor the VMware vCenter Server® instances, hosts, VMs distributed port groups and distributed switches in your environment to ensure that the settings on your objects meet the defined standards.</p> <p>VMware Aria Operations includes alerts for vSphere Hardening Guides as well as for hardening guides for the Health Insurance Portability and Accountability Act (HIPAA) and the Payment Card Industry Data Security Standard (PCI DSS), which are delivered as PAK files that you upload, license and install.</p>
Built-In High Availability (Automated Failover of Platform Nodes)	High availability creates a replica for the VMware Aria Operations master node and protects the analytics cluster against the loss of a node.

<p>Customizable Dashboards, Reports and Views</p>	<p>To view the status of all objects in VMware Aria Operations, create a dashboard by adding widgets. You can create and modify dashboards and configure them to meet your environment needs.</p> <p>With the VMware Aria Operations reporting functions, you can generate a report to capture details related to current or predicted resource needs. You can download the report in a PDF or CSV file format for future and offline needs.</p>
<p>Management Packs: Compute, Storage, Networking, Converged/Hyperconverged, Non-vSphere Hypervisors</p>	<p>You can extend the monitoring capabilities of VMware Aria Operations by installing any of 150+ management packs, workflows, agents, custom dashboards, etc. from VMware or third parties. The most popular way of extending VMware Aria Operations is through management packs.</p> <p>VMware Aria Operations comes with native management packs for VMware SDDC and other VMware Aria technologies such as NSX, vSAN, VMware Aria Automation, VMware Aria Operations for Logs, VMware Aria Operations for Networks, etc.</p> <p>VMware Aria Operations for Integrations (for purchase) offers management packs for network, virtualization and container, connectors, database, and applications.</p> <p>In addition, there are several management packs that are entitled in each edition of VMware Aria Operations that a customer can install as needed. For example, physical compute and storage at VMware Aria Operations Standard, or AWS, Azure, Google Cloud Platform at VMware Aria Operations Enterprise.</p> <p>Third-party solutions include compute, storage, networking, HCI and more from Dell, IBM, Juniper, HPE, Nvidia and others. To download software and documentation for optional solutions, visit VMware Marketplace™ at marketplace.cloud.vmware.com.</p>
<p>Multi-Cloud Monitoring Packs: AWS, VMware Integrated OpenStack, VMware Cloud Provider Program Partners</p>	<p>See above.</p>
<p>Super Metrics</p>	<p>The super metric is a mathematical formula that contains one or more metrics. It is a custom metric that you design to help track combinations of metrics, either from a single object or from multiple objects. If a single metric does not inform you about the behavior of your environment, you can define a super metric.</p>
<p>Monitoring of OS Resources (CPU, Disk, Memory, Network)</p>	<p>Telegraf agents gather operating system metrics and monitor availability of remote platforms and applications.</p>
<p>Telegraf Agents</p>	<p>Telegraf agent options:</p> <ul style="list-style-type: none"> • Open-Source Telegraf, downloaded from https://www.influxdata.com/time-series-platform/telegraf/ • Ops Managed Telegraf (See VMware Aria Operations Documentation for details) • User Managed Telegraf (See VMware Aria Operations Documentation for details)
<p>Service Discovery and Application Dependency Mapping</p>	<p>VMware Aria Operations Service Discovery™ discovers all the services running in each VM and then builds a relationship, or dependencies, between services from different VMs based on the network communication.</p> <p>It can create dynamic applications based on the network communication between the services and brings the functionality into VMware Aria Operations.</p>
<p>Curated Applications</p>	<p>In ops-managed Telegraf, there are 25+ supported applications that are easily configured and supported. For more information, see VMware Aria Operations Documentation.</p>

Purchase options

VMware Aria Operations is available as part of VMware Aria Suite and can also be purchased standalone. Choose the edition of either VMware Aria Suite or VMware Aria Operations that meets your needs.

SaaS

VMware Aria Operations is available as a standalone VMware Cloud service and as part of VMware Aria Universal to provide organizations with operational agility and faster time to innovation. With SaaS, you only pay for what is used as on-demand or one- to five-year commitments.

Support

VMware offers global subscription and support (SnS) services to all VMware customers. For customers requiring additional services, VMware also offers professional services engagements for best practices and getting started with your deployment, both directly and through an extensive network of certified professionals. For more information, visit vmware.com/services.

Learn more

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.

For detailed product specifications and system requirements, refer to the VMware Aria Operations documentation at docs.vmware.com/en/vRealizeOperations.