



Unify Operations and Improve Performance

VMware Capabilities At a Glance

Gain unified visibility and consistent operations of your applications, infrastructure, and platform services, enabling AI-powered continuous performance optimization, unified monitoring, troubleshooting, capacity and cost management, migration planning, and network optimization across multiple clouds, as well as both traditional and modern container-based applications from a single source of truth.

VMware Aria Solutions

- [VMware Aria Operations](#)
- [VMware Aria Operations for Networks](#)
- [VMware Aria Operations for Logs](#)

Digital business success depends on highly performant multi-cloud operations. Yet few organizations can confidently assure customers and employees that all their apps and cloud infrastructure will always be available. As organizations look to continually differentiate their offerings in highly competitive marketplaces, VMware Aria cloud management solutions empower teams to optimize resources for maximum performance no matter where their apps and workloads run.

Unsatisfying experiences and outages challenge organizations

The difference between exceptional and poor IT system performance translates into real-world consequences. Imagine physicians not having the right information to treat emergency room patients, a machinist unable to access repair orders, an investor losing trade execution opportunities, or remote students missing important lessons.

Business stakeholders and customers alike expect continuous app and workload availability—despite natural disasters, seasonal spikes, and organizational changes such as hybrid working. To meet requirements, public cloud services covered by service-level agreements (SLAs) with five nines (99.999%) mandate no less than 5 minutes and 15 seconds of downtime a year while services with four-nines SLAs (99.99%) could be unavailable for up to 52 and a half minutes a year.¹

Consumers and providers, including developers, need to make practical decisions about the services they use every day (for example, are they readily available and easy to access and use?), making it imperative for organizations to optimize for supporting actionable insights across multi-cloud operations. Without holistic visibility and insights, organizations face challenges including:

- Outages that can lead to a loss of brand loyalty and trust
- Misconfiguration that negatively impacts compliance, increasing risk
- Rise in support requests, driving up costs
- Inability to effectively support all apps with consistent control, governance, and visibility

1. TechTarget. "Five-Nines Availability: What It Really Means," June 2021.

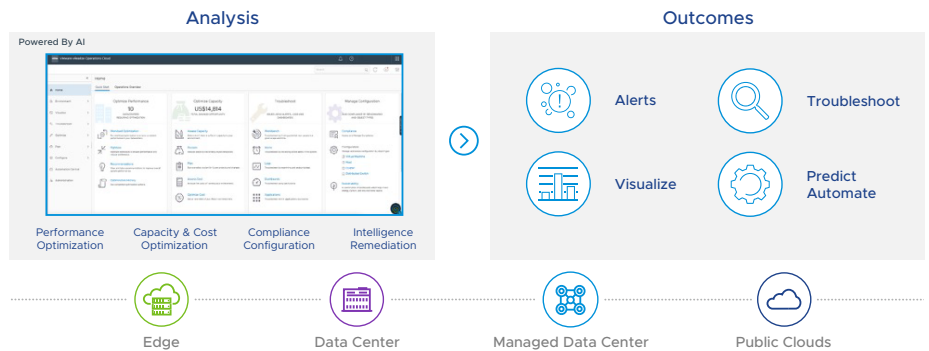
“ It used to take me around a year and a half just to place an application in production. With VMware cloud management, I now do it within months. It’s a game changer.”

Nestor Rodriguez
Director of Technology and Change,
Provident Mexico

Disconnected operations impede an organization’s ability to not only run efficiently but to troubleshoot problems and recover from outages quickly. In contrast, teams that unify operations are experiencing a 93% reduction in unplanned downtime.²

Unify operations with consistent oversight

Leveraging the strategic cloud operating model powered by VMware Aria solutions, organizations gain centralized views and controls to manage the entire multi-cloud environment with a unified experience and intelligent insights. They improve uptime. They reduce time spent troubleshooting across clouds. They also maximize efficiency and minimize costs by leveraging end-to-end intelligent operations across clouds and onsite infrastructure. Successful businesses run multi-cloud operations seamlessly with VMware Aria solutions. They maximize utilization, running private clouds at public cloud scale, as well as optimally secure and govern public clouds while balancing costs and performance. They benefit from consistent operations, native support across hybrid and public clouds, and increased visibility and control through third-party integrations.



2. Forrester. "Forrester Total Economic Impact™ of VMware vRealize Operations," 2021.

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Resources

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- [Accelerate Delivery Automation](#)
- [Simplify Cloud Cost and Capacity Management](#)
- [Secure Configurations and Streamline Compliance](#)

Watch informative demos, review new features, and take a deep dive of [VMware Aria Operations on VMware Pathfinder](#)

Get specifics from our [technical documentation](#)

See where [VMware Aria cloud management services](#) are hosted globally

Modern, unified, multi-cloud operations at scale

VMware Aria solutions feature a host of capabilities for teams looking to unify and improve multi-cloud operation performance.

6 Ways VMware Aria Unifies Operations & Improves Performance

①

Continuous performance optimization

②

App-aware intelligent remediation across VMware Cloud and public clouds

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Seamless Kubernetes operations

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Optimized network operations across apps and clouds

⑤

Sustainability and carbon reduction

⑥

Simplified migration

① Continuous performance optimization

Teams trust VMware Aria to ensure hybrid cloud performance that meets SLAs at minimal cost. Driven by operational and business intent, real-time predictive analytics, and artificial intelligence (AI) capabilities, VMware Aria solutions drive actions to proactively avoid contention and automate workload balancing and placement for the VMware Cloud.

② App-aware intelligent remediation across VMware Cloud and public clouds

VMware Aria solutions allow organizations to predict, prevent and troubleshoot issues faster with AI and unified visibility from apps to infrastructure in one place. A federated view across multiple regions and distributed environments lets teams unify visibility and monitoring for the entire cloud ecosystem from on-premises hardware to native public cloud services with one platform. IT can correlate metrics and logs across on-premises and multi-cloud infrastructure and apps, expanding management process, services, and apps. Teams can streamline and centralize IT operations through native integrations across VMware Cloud and extend capabilities to monitor the health of multiple public cloud services across Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, Oracle Cloud, and other VMware Cloud Provider Partner (VCP) offerings.

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3 Seamless Kubernetes operations

Organizations ensure reliability with operating standards because of a consistent operating model across virtual machines (VMs) and Kubernetes environments with VMware Aria. Whether running Tanzu Kubernetes in the public cloud or on premises, using OpenStack, or another upstream build of Kubernetes, Day 2 capabilities in VMware solutions improve Kubernetes operations. They provide insights into managed Kubernetes services (e.g., Amazon EKS, Google GKE, and Azure AKS) and through an integration with the popular observability platform Prometheus, allow developers and application teams to share the same view. Concurrently, infrastructure and platform operators can consume the metrics and speed time to resolution because there's less friction between teams able to see the full Kubernetes landscape without having to learn new tools. When Kubernetes is running on top of VMware vSphere, VMware Aria solutions also can map the relationships between vSphere objects and Kubernetes environments for side-by-side views of K8s and Infrastructure metrics and, if needed, speed remediation by coupling the powerful AI-driven features of other VMware Aria solutions.

4 Optimized network operations across apps and clouds

Organizations can improve performance and availability with converged visibility across physical and virtual networks in hybrid and multi-cloud environments with VMware Aria. End-to-end network visibility for workloads in VMware Cloud makes troubleshooting easier and faster. Teams can securely and confidently manage networks at scale, achieve connectivity between overlay and underlay networks, and take advantage of end-to-end traffic and path analytics and network assurance and verification. IT also benefits from log analysis displays for private, hybrid, and public clouds in a single UI that improve last-mile troubleshooting and speed time to repair. Organizations using VMware Aria optimize app performance with intelligent app discovery and by eliminating network bottlenecks. They also can design app security with firewall policy recommendations and network segmentation for apps as well as troubleshoot security for hybrid applications across VMs, containers, and clouds.

5 Sustainability and carbon reduction

Organizations looking to advance sustainability goals rely on VMware Aria to help lower workload carbon footprints through infrastructure reductions, energy-efficient operations, and renewable energy-powered data centers. They proactively monitor on-premises and as-a-service resources with VMware software to discover zombies (compute assets such as VMs, storage, and physical servers no longer engaged in useful work) and can identify then remediate oversized VMs that increase business energy output, costs, and risk. Using VMware Aria sustainability dashboards, including views into carbon efficiency with virtualization, carbon transparency, green supply, clean demand and more, organizations drive secure, resilient, and sustainable IT infrastructure as well as catalyze the transition to zero-carbon clouds.

Why VMware Aria?

- **Proven solution** from a trusted vendor and market leader
- **Multi-cloud visibility** across private, hybrid, and public clouds
- **Comprehensive capabilities** from a single platform with a common control plane and data model
- **Ultimate flexibility** to choose SaaS, on premises, or a combination of both in one license
- **Broadest ecosystem** that is extensible with 220+ integrations
- **Leading IT in sustainability**, helping customers reduce environmental impact

6 Simplified migration

With VMware Aria, organizations can more easily evaluate and migrate applications with a full view of component dependencies, network requirements, and security postures. Teams can detect application and tier boundaries as well as understand common or shared services with a high degree of connections using ML on traffic patterns. Once discovered, these can then be used everywhere to uncover undocumented dependencies before establishing migration waves that speed time to new platforms. Once migrated, VMware Aria solutions allow teams to perform post-migration checks to determine whether traffic patterns remain consistent or have deviated, dropping packets, for example, due to misconfigured security policies.

Learn more about unifying operations and better performance

Teams accelerating multi-cloud strategies are optimizing app and workload performance for maximum efficiency at minimal cost with VMware Aria solutions. These include VMware Aria Operations, VMware Aria Operations for Networks, and VMware Aria Operations for Logs.

In addition to unifying operations, VMware Aria solutions empower organizations to simplify cloud cost and capacity management, strengthen security and compliance, and automate delivery.

Learn more at www.vmware.com/go/aria.