VMware Aria Solution Brief

Unifying your multi-cloud environment

"VMware Aria helped us a lot to scale and expand into this hybrid/multi-cloud model because we weren't able to bridge this gap of having different interfaces from different providers. We benefited the most from providing the same experience to users when it didn't matter from where the infrastructure was running."

Ismar Efendic
IT Infrastructure Manager, GFK

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

Overview

The key to achieving an optimized multi-cloud environment that drives successful business outcomes lies in adopting a cloud management solution with a single platform and a common control plane and data model. That ensures a unified understanding of every application and system with security and intelligence built in to safeguard data and connect insights.

With a common control plane and data model, teams can adjust operations to control cloud costs and capacity, optimize performance, secure configurations, and accelerate automation across distributed teams and applications as well as private, hybrid, and multi-clouds for consistent operations.

VMware Aria is a transformational multi-cloud management solution that features VMware Aria Hub, a single platform unifying cost, performance, configuration, and delivery automation to optimize business outcomes for any cloud, any platform, any tool, and every persona. And it's all powered by VMware Aria Graph, a data store technology purpose-built to address the scale and speed that cloud-native environments need.

COST	PERFORMANCE	CONFIGURATION	DELIVERY AUTOMATION
$			
Control	Optimize	Secure	Accelerate
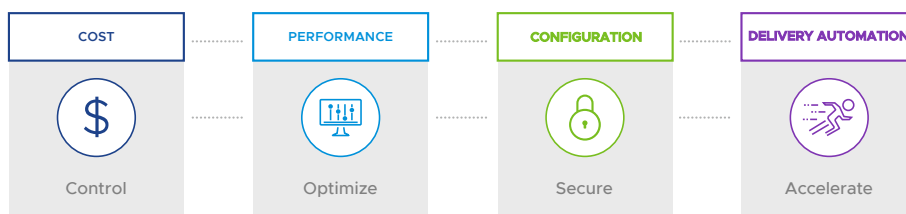
Simplify cloud cost and capacity management

Multi-cloud computing is a top priority for organizations. Yet it has also become a source of friction between IT executives who want to move faster at any cost and finance executives who want to stay competitive within budget. When enterprises adopt the cloud for business benefits, such as data insights and cost savings, VMware Aria solutions assist teams in maximizing resource usage at the lowest possible cost.

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At a Glance

• Simplify financial management by analyzing and reporting cloud use and spend by team, project, application, or cost center.

• Empower teams to drive financial accountability and optimize cloud expenditure with unique rightsizing suggestions, dynamic governance policies, and streamlined management of public cloud reservations and discount programs.
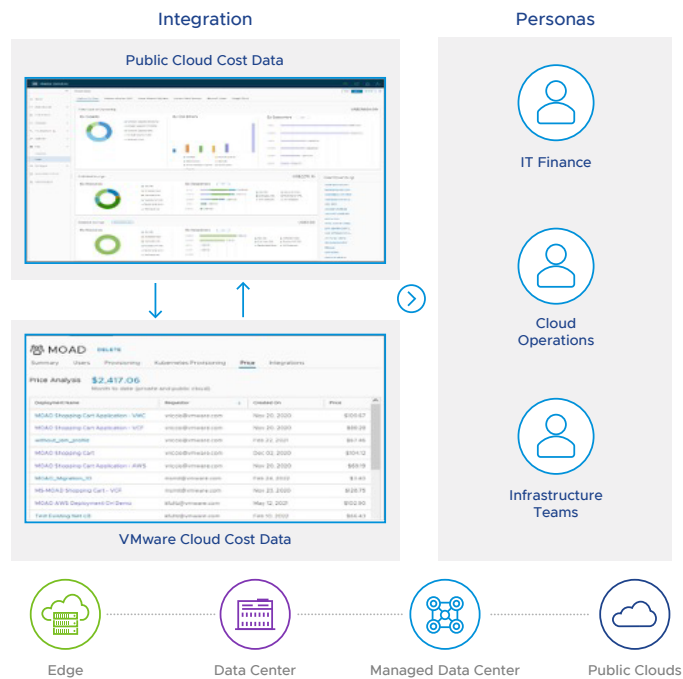
VMware Aria Solutions

• VMware Aria Cost powered by CloudHealth

• VMware Aria Operations

• VMware Aria Automation

Experience It Today

• Request a trial: VMware Aria Cost powered by CloudHealth or VMware Aria Operations

• Try a Hands-on Lab: VMware Aria Cost powered by CloudHealth or VMware Aria Operations

How to control cloud spend

1. Complete cost visibility: Empower organizations to view and analyze spending and capacity decisions no matter which cloud-operating model they choose.

2. Cost awareness for cloud consumers: Show consumers, or lines of business, the performance and cost characteristics of their deployed resources to help them make more informed decisions with their workloads.

3. Continuous cost optimization: Ensure organizations right-size capacity, whether they are using public, hybrid, and multi-cloud applications and services.

4. Simplified capacity optimization and planning: Gain optimal application, virtual machine (VM), and workload consolidation to improve proactive planning because of the real-time, forward-looking VMware Aria capacity analytics engine.

5. Comprehensive cost governance: Monitor environments for opportunities to reduce wasted spend and optimize costs.

6. Organizational accountability: Align public cloud financial data with strategic business metrics and key performance indicators (KPIs), such as gross margins and cost of goods sold for common goal achievement.

With VMware Aria cost optimization, organizations streamline financial management and boost accountability. A Fortune 50 information technology company using the solution is achieving 35% average savings on compute costs.[1]

1. VMware. "How CloudHealth Enabled VMware to Regain Control and Optimize Public Cloud Spend," 2019.

At a Glance

Gain unified visibility and consistent operations of your applications, infrastructure, and platform services across multi-clouds, allowing AI-powered continuous performance optimization, unified monitoring, troubleshooting, capacity and cost management, migration planning, and network optimization.

VMware Aria Solutions

• VMware Aria Operations

• VMware Aria Operations for Networks

• VMware Aria Operations for Logs

Experience It Today

• Request a free 30-day trial

• Try a Hands-on Lab: VMware Aria Operations

Unify operations and improve performance

The success of a digital business is dependent on high-performance multi-cloud operations. Few firms, however, can safely assure customers and workers that all their applications and cloud infrastructure will be accessible at all times. As businesses strive to distinguish their products in increasingly competitive markets, VMware Aria solutions enable teams to manage resources for optimal performance regardless of where their applications and workloads operate.

How to improve performance

1. Continuous performance optimization: Proactively automate workload balancing and placement for the VMware cloud with real-time predictive analytics and artificial intelligence (AI) capabilities.

2. App-aware intelligent remediation across VMware Cloud and public clouds: Predict, prevent, and troubleshoot issues faster with AI and unified visibility from applications to infrastructure in one place.

3. Seamless Kubernetes operations: Ensure reliability with operating standards because of a consistent operating model across VMs and Kubernetes environments.

4. Optimized network operations across applications and clouds: Improve performance and availability with converged visibility across physical and virtual networks in hybrid and multi-cloud environments.

5. Sustainability and carbon reduction: Advance sustainability goals lowering workload carbon footprints through infrastructure reductions, energy-efficient operations, and renewable energy-powered data centers.

6. Simplified migration: Evaluate and migrate applications with a full view of component dependencies, network requirements, and security postures. Once migrated, perform post-migration checks of traffic patterns.
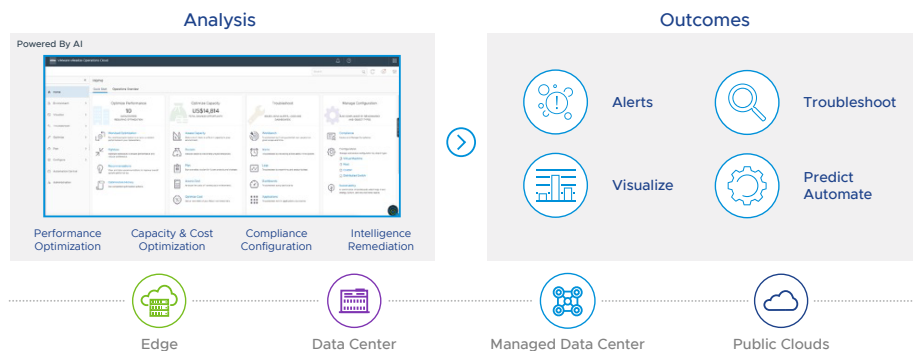
With VMware Aria performance optimization, organizations are achieving measurable business outcomes. The most recent Forrester TEI study reports a 93% reduction in unplanned downtime with VMware Aria Operations (formerly vRealize Operations).[2]

2. Forrester. "Forrester TEI of VMware vRealize Operations," 2021.

At a Glance

- Improve cloud security and compliance with real-time insight into resource interactions, misconfigurations, risk scores, and activity logs in a multi-cloud system. Quickly fix security discoveries through alerts or automated remediation.

- Ensure continuous compliance with custom policies or out-of-the-box security rules based on industry standards.

VMware Aria Solutions

- VMware Aria Automation

- VMware Aria Automation for Secure Clouds

- VMware Aria Automation Config

- VMware Aria Operations

- VMware Aria Operations for Logs

- VMware Aria Operations for Networks

Experience It Today

- Request a trial: VMware Aria Automation, VMware Aria Automation for Secure Clouds, or VMware Aria Operations

- Try a Hands-on Lab: VMware Aria Automation

Secure configurations to manage risk and streamline compliance

Multi-cloud environments provide business agility, giving enterprises a competitive advantage. Although, with each new cloud, it becomes more challenging to maintain company data and keep infrastructure compliant. Organizations are challenged to effectively manage risk, maintain governance, and ensure their multi-cloud systems stay in compliance with legal and regulatory responsibilities.

How to secure configurations and streamline compliance

1. Continuous security configuration and vulnerability management: Reduce risk at scale by establishing and enforcing configuration best practices within and across multi-clouds. For cloud workloads, intuitive event-driven configuration automation rapidly deploys and configures VMs, servers, containers, and network devices. For cloud services, improve cloud security and compliance postures with organization-wide standards and fine-tuned policies. Reduce misconfigurations and prioritize threats with advanced risk correlation, visual risk context, and a secure auto-remediation approach.

2. Comprehensive compliance management: Stay up to date with regulatory standards and industry best practices to improve compliance for cloud workloads and cloud services. Use event-driven automation to detect changes in the workload and auto-remediate drift by enforcing the desired state. Plus, leverage out-of-the box compliance templates or customize your own. For cloud services, create security policies and scan systems, including in-guest workloads, for common vulnerabilities and exposures (CVEs), then immediately apply appropriate updates or patches to remediate.

3. Shift-left security: Shifting left or verifying security configurations earlier in the delivery pipeline allows organizations to proactively remediate violations before production. VMware Aria automates cloud security operations with an API-first platform that easily integrates with other tools.

VMware Multi-Cloud Security and Compliance Capabilities
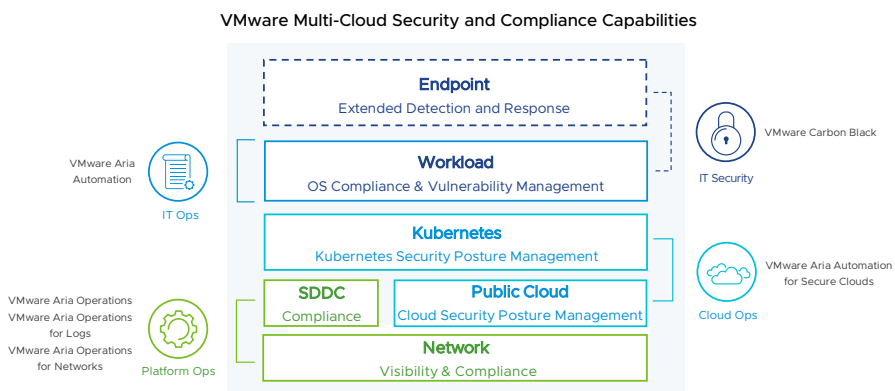
With VMware Aria security and compliance capabilities, teams see less than six seconds from change notification to risk detection for 95% of security findings.[3]

3. VMware. "CloudHealth Secure State Platform Telemetry," 2022.

At a Glance

- Multi-cloud self-service infrastructure automation platform

- DevOps Infrastructure as Code, GitOps, and Infrastructure Pipelining

- Centralize Kubernetes automation and administration

- Event-driven automation for IT system compliance enforcement and vulnerability repair

VMware Aria Solution

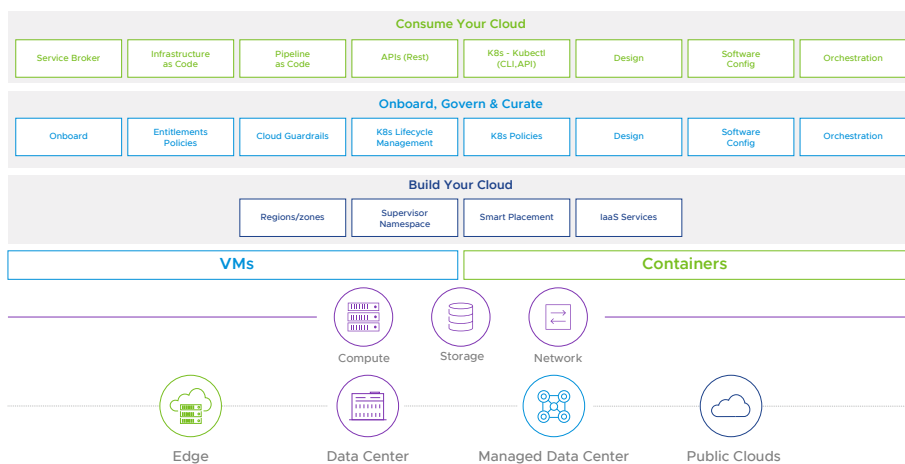- VMware Aria Automation

Experience It Today

- Request a trial

- Try a Hands-on Lab: VMware Aria Automation

Accelerate delivery automation

Organizations can automate multi-cloud infrastructure consumption for greater agility and enhanced business value with automation capabilities from VMware Aria. They can unlock modern DevOps-enabled capabilities with a common multi-cloud infrastructure consumption layer that speeds up the delivery of infrastructure and services—both cloud-native and traditional, which are key to driving increased profitability, top-line revenue, and enhanced agility.

How to accelerate delivery automation

1. Self-service multi-cloud infrastructure automation: Automate IT infrastructure to save time and reduce errors. Quickly deliver resources utilizing VMware Cloud Templates, orchestration processes, infrastructure, and application pipelines from a single self-service catalog.

2. Powerful IT automation: A contemporary infrastructure platform automates time-consuming, expensive, and laborious infrastructure management chores. An event-driven automation engine identifies and fixes issues. To ensure continued system performance, teams can manage patches, schedule system maintenance, and enable full-scale remote execution. They can also simplify data center and multi-cloud configuration. Application-aware content reduces third-party integrations.

3. Modern DevOps for infrastructure and Kubernetes automation: Streamline DevOps infrastructure resource consumption and delivery. Support Infrastructure as Code in VMware Cloud Templates, Git-based infrastructure pipelining, and iterative development. Enhance K8s infrastructure delivery and consumption using Infrastructure as Code and pipelining.

Consume Your Cloud

| Service Broker | Infrastructure as Code | Pipeline as Code | APIs (Rest) | K8s - Kubectl (CLI,API) | Design | Software Config | Orchestration |

Onboard, Govern & Curate

| Onboard | Entitlements Policies | Cloud Guardrails | K8s Lifecycle Management | K8s Policies | Design | Software Config | Orchestration |

Build Your Cloud

| Regions/zones | Supervisor Namespace | Smart Placement | IaaS Services |

| VMs | Containers |

Compute · Storage · Network

Edge · Data Center · Managed Data Center · Public Clouds

With VMware Aria delivery automation, organizations are achieving a measurable market advantage—one-week faster deployment for end-user environments, according to the Forrester TEI study of VMware Aria Automation (formerly vRealize Automation).[4]

4. Forrester. "The Total Economic Impact™ of VMware vRealize Automation," July 2019.

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Flexible multi-cloud management

VMware Aria Universal Suite supports your business transition to the cloud with a consistent multi-cloud management experience. In one license, you get the flexibility to deploy as SaaS or on-premises with the freedom to move between the two as needed. This enables your organization to move at its own pace so it can be more agile, scalable, and efficient.

Get the details about VMware Aria

Take the next step in transforming the multi-cloud model into a practical solution with tangible business results: Learn more about VMware Aria.

• Watch a demo video of how MOAD.io uses VMware Aria.

• Request a meeting with our VMware cloud management experts.

Discover more about VMware Aria at www.vmware.com/go/aria.