



Industry

Application modernization and configuration management.

Location

Palo Alto, California

Goal

Leverage a powerful, event-based configuration management solution to deploy full-stack environments for developers while reducing costs.

Challenges

- Full-stack deployments are cumbersome to scale.
- Reduce time spent manually configuring servers and tracking configuration errors.
- Inconsistent environments decrease system stability and security.
- Unable to remediate issues caused by configuration drift impacting downstream users.

Solution

VMware Aria Automation™, VMware Aria

How VMware IT Uses VMware Aria Automation Config for Full-Stack Deployments

VMware IT is responsible for standing up environments to support IT development—quickly, consistently and to remediate configuration drift after deployment.

For server environments, subtle inconsistencies can lead to costly system outages, potential security vulnerabilities and business leaders losing confidence in their IT departments.

Without configuration automation, building and maintaining full-stack environments at scale can be cumbersome and increase the risk of inconsistencies. This can lead to "snowflake servers," which are servers that require unique configurations, producing environments that are expensive to maintain and problematic for keeping track of the workloads running. These scenarios cause massive problems when servers need to be replaced, especially for large organizations that support many thousands of servers.

VMware IT leveraged VMware Aria Automation Config™ to overcome these challenges and deploy servers consistently at scale.

VMware Aria Automation Config

A tool like VMware Aria Automation Config helps reduce costs, complexity and errors by ensuring a consistent state.

Common VMware Aria Automation Config capabilities include:

- Configuration management
- Self-service infrastructure automation
- Software deployment and updates
- Compliance and secure configuration enforcement
- Patching and orchestrated OS app maintenance

Solution: VMware Aria Automation Config

- Automated deployment and configuration of application and database servers.
- Built-in OS configuration management.
- Broad set of application-aware content.
- DevSecOps capability to secure IT systems from unauthorized access and data breaches. See Figure 1.

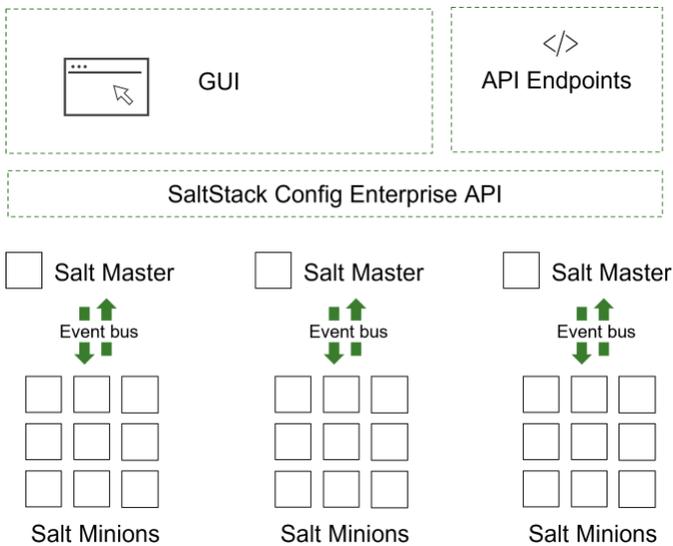


Figure 1. Configuration of VMware Aria Automation Config.

Top four use cases

1. **Full-stack orchestration**—Delivers the last mile of full-stack automation: software configuration management, Day 2 OS admin. tasks, and software automation, orchestration and remote task execution.
2. **Event-driven action**—VMware Aria Automation Config uses a unique event bus architecture to detect changes and kick off automation to respond to changes (config changes, service failures, application outages, system not responding).
3. **Speed of delivery**—Enacts change immediately across the VMware IT digital estate at a massive scale.
4. **Empower developers**—Delivers a cloud consumption experience via a self-service catalog with DevOps principles.

By the numbers

- Number of VMs deployed by VMware IT monthly, leveraging Aria Automation with Automation Config: 300
- Number of self-service cloud templates and blueprints available to VMware developers: 54 - From plain OS VM to multi-stack deployments (including Oracle RAC VMs)
- Amount of time to complete a multi-stack blueprint deployment: 48 hours

Looking ahead

VMware IT is in the process of building a cloud-agnostic solution that provides VMware the ability to extend our applications to a multi-cloud environment.

Aria Automation Config combines the power of Salt with best-in-class infrastructure automation from Aria Automation to deliver a complete end-to-end solution for full-stack automation. It will be a crucial component of our multi-cloud journey.

Learn more

To learn more, contact your sales representative or vmwonvmw@vmware.com to schedule a 1:1 customer briefing on this topic with a VMware IT subject matter expert.

For more information or to purchase VMware products

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