

# VMware vRealize Automation

## Modern infrastructure automation platform

### KEY BENEFITS

- Ease of use – Easy and fast to set up and manage a secure hybrid cloud environment throughout its lifecycle.
- Enforce Security and Compliance – Enforce consistent compliance and remediate vulnerabilities across your multi-cloud environment.
- Agility and flexibility – Deliver fast performance with native configuration management and integrate with DevOps through Infrastructure as Code (IaC).
- Accelerated time to market – Rapid and automated infrastructure delivery with agility, consistency, and visibility.
- Consistency and reliability – Consistent automation and service delivery while dynamically adjusting to changing infrastructure environments.
- Future ready – Manage traditional and cloud native workloads across private, hybrid and multi-cloud environments.

### What is VMware vRealize Automation?

VMware vRealize® Automation™ is a modern infrastructure automation platform with event-driven state management. It is designed to help organizations control and secure self-service hybrid clouds, multi-cloud automation with governance, and DevOps-based infra-structure delivery. With vRealize Automation, internal IT operations, DevOps engineers, developers and the lines of business get the environments and resources that they need faster with a public cloud-like user experience, while IT maintains security, compliance and control. This means that customers benefit from increased scalability, speed, flexibility, and reliability as they reduce the complexity of their IT environment, streamline IT processes, and deliver a DevOps-ready automation platform.

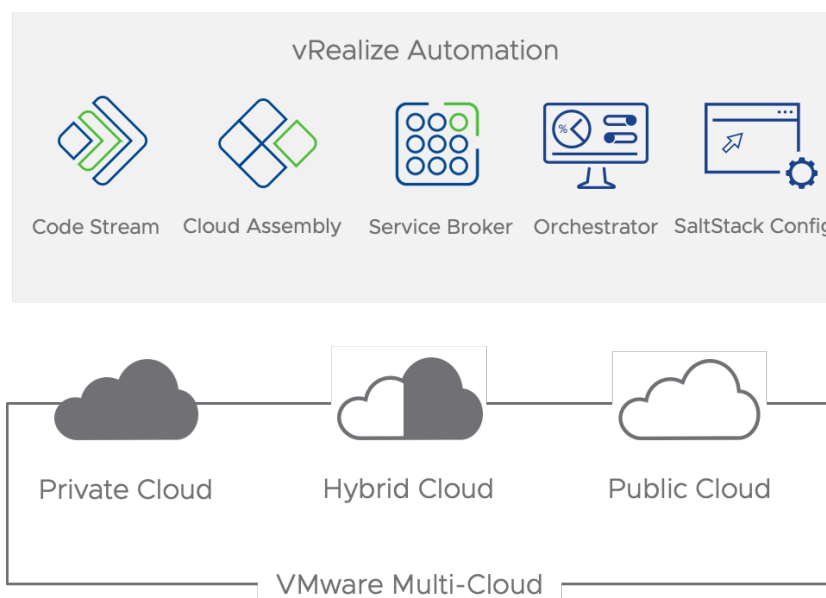


FIGURE 1: VMware vRealize Automation overview.

### Modern infrastructure automation platform

#### Easy, fast to set up and manage a secure multi-cloud environment

vRealize Automation helps customers establish an intelligent approach to automated lifecycle management by attaining end-to-end lifecycle management with VMware vRealize Suite Lifecycle Manager™. The process includes installation, configuration, upgrading and patching, all based on best practices and VMware Validated Designs™. vRealize Automation is designed to provide immediate value for deep, native integrations across the VMware stack with VMware vRealize Operations™ and self-service cloud setup for VMware Cloud Foundation™ and VMware Cloud™.

## CUSTOMER USE CASES

- Self-service private and hybrid cloud
  - Unify self-service provisioning and catalog for private and hybrid cloud infrastructure based on VMware Cloud Foundation and VMware Cloud on AWS.
- Multi-cloud automation with governance
  - Extend self-service automation to multiple public clouds, including Amazon Web Services, Microsoft Azure and Google Cloud Platform.
- DevOps for infrastructure
  - Enable a powerful IaC platform with support for infrastructure pipelining and iterative development.
- Kubernetes automation
  - Automate Kubernetes cluster and namespace management and support for vSphere with Kubernetes.
- Network Automation
  - Automate VMware NSX to enable faster deployment and complete lifecycle automation of traditional and modern applications with networking and security services.
- Security Operations
  - Harness event-driven automation to deliver full-service, closed-loop IT system compliance enforcement and vulnerability remediation.

## FOR MORE INFORMATION OR TO PURCHASE VMWARE PRODUCTS

Call 877-4-VMWARE (outside North America, +1-650-427-5000).

Visit the product page:

[vmware.com/products/vrealize-automation](https://vmware.com/products/vrealize-automation)

## Self-service provisioning with consistent compliance, policy, and control

End users can ask for comprehensive IT services through a common, self-service product catalog that aggregates all services, templates and images from multiple clouds and platforms, including native public cloud services. With fine-grained policy management in vRealize Automation, admins can apply predefined and custom roles, policies and approval flows to projects and organizations to provide the desired level of access for all internal users. For identity management, vRealize Automation provides native integration with VMware Workspace ONE® Access™ and Microsoft Active Directory.

## Self-service automation across hybrid and multi-cloud environments

To optimize infrastructure workload deployments, the VMware Cloud Templates™ designer allows users to model business-critical IT services by using a visual canvas with a drag-and-drop interface. Templates can also be defined through IaC using YAML/JSON formats. Cloud-agnostic templates can be deployed quickly and effortlessly to any endpoints based on predefined policies. Enhanced multi-cloud support allows users to embed native public cloud services constructs into templates that can be deployed to any public cloud endpoint.

## Infrastructure as code and Kubernetes automation

vRealize Automation is a powerful DevOps platform that supports IaC, infrastructure pipelining and seamless integrations with native state management via vRealize Automation SaltStack Config and third-party tools, such as Ansible, Puppet and Terraform. The release pipeline management is automated with VMware Code Stream™, while increased coverage for infrastructure and app pipelines is offered through the easy-to-use, self-service catalog. Enhanced visibility and analytics provide an end-to-end view of all pipelines and their current status. In addition, vRealize Automation provides Kubernetes infrastructure automation capabilities. It provides VMware vSphere® with Tanzu integration, enabling cloud admins to create vSphere-based Kubernetes environments.

## vRealize Automation components

### VMware Cloud Assembly

VMware Cloud Assembly™ is a multi-cloud provisioning service. For virtualized data center infrastructure based on VMware Cloud Foundation, it offers the ability to create a private cloud. VMware Cloud Assembly provides a cloud API layer utilized by the templating engine. It also supports extensibility mechanisms for private cloud through VMware vRealize Orchestrator™ workflows and event-broker subscriptions.

### VMware Service Broker

VMware Service Broker™ aggregates content from multiple resources and platforms, including VMware Cloud Assembly, vRealize Orchestrator and native public clouds, into a common product catalog. It provides a self-service model with flexible, policy-based guardrails for governance. Enable a federated catalog by leveraging vRealize Automation Cloud™ for on-premises instances.

### VMware Code Stream

VMware Code Stream automates the application and infrastructure delivery process with release pipeline management, including visibility and analytics into active pipelines and their status for troubleshooting. It allows DevOps teams to leverage existing tools and processes with out-of-the-box integration.

### VMware vRealize Orchestrator

vRealize Orchestrator simplifies and automates complex data center infrastructure tasks, delivering consistent remediation of issues, extensibility and fast service delivery.

### VMware vRealize Automation SaltStack Config

VMware vRealize Automation SaltStack Config can easily define optimized, compliant software states and enforce them across your entire environment—virtualized, hybrid or public cloud—with powerful, intuitive configuration automation.