VMware vRealize Automation

Modern infrastructure automation platform

KEY BENEFITS

- Simple to use: Easy and fast to set up, configure and manage a secure multicloud environment throughout its lifecycle
- Secure and compliant: Consistent orchestration with self-service and governance across a multicloud environment
- Agility: Powerful Infrastructure as Code (IaC) platform with infrastructure pipelining support for fast and agile service delivery
- Faster time to market: Speed software delivery with flexibility and pipeline visibility
- High availability and reliability: Consistent automation throughout the lifecycle of the running application, adjusting to changes in the environment
- Any app on any cloud: Run any virtual machine (VM) or container-based applications across multicloud environments

VMware vRealize Automation

VMware vRealize® Automation™ is a modern infrastructure automation platform that increases productivity and agility by reducing complexity and eliminating manual or semi-manual tasks. 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 and control.

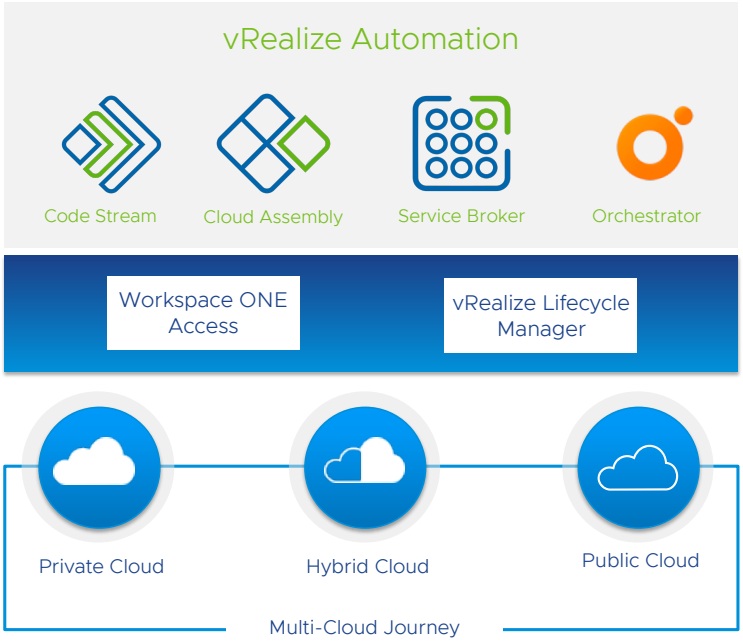

FIGURE 1: VMware vRealize Automation overview

Modern infrastructure automation platform

Easy and fast to set up and manage the multicloud

To help customers manage a multicloud environment, Easy Installer provides an automated installation process for vRealize® Suite Lifecycle Manager, Workspace ONE®, and vRealize Automation. The product 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 (VVD). 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™.

CUSTOMER USE CASES

- Self-Service Private and Hybrid Cloud: unified self-service provisioning and catalog for private and hybrid cloud infrastructure based on VMware Cloud Foundation and VMware Cloud on AWS.
- Multicloud Automation with governance: extending self-service automation to multiple public clouds, including Amazon Web Services, Microsoft Azure and Google Cloud Platform.
- Infrastructure DevOps: powerful Infrastructure as Code (IaC) platform with support for infrastructure pipelining and iterative development
- Kubernetes Infrastructure Management: automate Kubernetes cluster and namespace managements and support vSphere with Kubernetes.

FOR MORE INFORMATION OR TO PURCHASE VMWARE PRODUCTS

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

Visit product page:
vmware.com/products/vrealize-automation

Self-service provisioning with consistent governance and compliance

End users can ask for comprehensive IT services through a common, self-service product catalog that aggregates all services, blueprints, templates and images from multiple clouds and platforms, including native public cloud services. With vRealize Automation's fine-grained governance, admins can apply policies and approval flows to projects and organizations to provide the desired level of access for all internal users. Furthermore, a tight and continuous integration is provided with Workspace ONE Access and Active Directory for identity management.

Consistent orchestration across hybrid and multicloud environments

To optimize the infrastructure and application deployments, the blueprint designer allows users to model business-critical IT services by using a visual canvas with a drag-and-drop interface. Blueprints can also be defined seamlessly as code with YAML. Cloud agnostic blueprints can be deployed quickly and effortlessly to any endpoints based on predefined policies. Enhanced multicloud support allows users to embed native public cloud services constructs into blueprints that can be deployed to any public cloud endpoint. In addition, Anything as a Service (XaaS) provides maximum flexibility and control over data centers and cloud infrastructure environments with custom resources and custom day 2 actions. Lastly, newly added network automation capabilities deliver increased efficiency, flexibility and a lower risk of security breaches.

Infrastructure as Code (IaC) and Kubernetes management

vRealize Automation is a highly automated DevOps platform with Infrastructure as Code (IaC) and rich integrations with DevOps and developer tools. The release pipeline management is automated with 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 management capabilities. It provides VMware vSphere® with Kubernetes integration, enabling cloud admins to provision vSphere Kubernetes namespaces.

vRealize Automation Components

Cloud Assembly

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

Service Broker

Aggregates content from multiple resources and platforms including 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.

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. Allows DevOps teams to leverage existing tools and processes with out-of-the-box integration.

VMware, Inc. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax 650-427-5001 vmware.com.