

# Puppet and VMware

Puppet has partnered with VMware to help organizations express workloads as resource-based blueprints which can be quickly and confidently provisioned with Puppet on “day one”. This ensures compliant configurations on “day two” and beyond.

Puppet integrates with both vRealize Automation™ and Cloud Assembly™. These integrations enable customers to deploy multi-tier applications that reuse existing Puppet automation code (modules), developed in-house or downloaded from the Puppet Forge (a community repository for sharing ready-to-use automation, many supported by Puppet, Inc).

## Benefits

- Management of many Day Two operations on Windows and Linux platforms such as application updates, scale out, and node teardown, in the cloud or on-premise.
- Deployment of any infrastructure or application through the growing ecosystem of ready-to-use Puppet modules, into any environment, including virtualized environments and public cloud.
- Accelerated PaaS and application deployment by streamlining the deployment process.
- Elimination of duplicate work by using reusable code and blueprints.
- Support for the cross-node dependencies that are common in multi-tier application deployments.
- Management of Puppet master configurations and agent run intervals in the vRealize user interface.
- Support for multiple Puppet masters in multiple environments, such as dev, test and production.
- Support for integrated end-to-end application deployment, starting with provisioning the VM, and going all the way through full-stack provisioning.



**VMware** is a global leader in cloud infrastructure and business mobility. Built on VMware's industry-leading virtualization technology, our solutions deliver a brave new model of IT that is fluid, instant and more secure. Customers can innovate faster by rapidly developing, automatically delivering and more safely consuming any application. With 2015 revenues of \$6.6 billion, VMware has more than 500,000 customers and 75,000 partners.

## What is Puppet Enterprise?

Puppet Enterprise is the industry-leading full-lifecycle virtualization and cloud automation solution that gives IT administrators the power to easily manage infrastructure, deploy virtual instances, scale applications, and automate server sprawl.

Using Puppet Enterprise, you can easily automate repetitive tasks, quickly deploy critical applications, and proactively manage change, scaling from tens of servers to thousands — on premise or in the cloud.

## How Puppet Enterprise works

Puppet Enterprise allows you to describe your infrastructure in code, then deploy that code across development, staging and production environments. With Puppet Enterprise, you can write configuration code just once, then use it over and over with the guarantee that software deployed to production is using the exact same procedures validated in development and staging environments.

Puppet Enterprise provides continuous insight into the state of your infrastructure by reporting pending changes, ongoing changes, and any configuration drift occurring in your environment. Puppet also remediates configuration drift automatically.

## What is the Puppet language?

The powerful Puppet language is a key component of Puppet Enterprise. The Puppet domain-specific language (DSL) is tailored to the needs of IT automation. It uses a declarative model that allows administrators to define the desired end state of resources in their infrastructure without writing fragile, complex procedural code that increases the risk of human error and outages. Code written with the Puppet DSL is also simpler to read and write than procedural code, making it easier to review and reuse. Administrators can write Puppet code just once, then reuse and share it with others in their organization.

## What is VMware vRealize Automation?

vRealize Automation is an application provisioning and release automation solution. It provides deployment automation and self-service provisioning by standardizing, streamlining, and automating release into hybrid cloud environments. vRealize Automation is easy to use, supports hybrid clouds, provides seamless application portability across cloud services, and enables repeatable deployments with standard deployment settings.

The key capability in vRealize Automation is the application blueprint, which describes an application deployment topology. You create the blueprint using a visual canvas with a drag-and-drop interface to assemble topologies of standardized components. The blueprint provides flexibility in abstracting the application from the infrastructure layer.

## What is VMware Cloud Assembly

VMware Cloud Assembly orchestrates and expedites infrastructure and application delivery in line with DevOps principles. Cloud Assembly is a multi-cloud, declarative blueprint orchestration and automation solution that can be utilized to build, provision and iterate on infrastructure and applications. It uniquely provides broad and deep support for VMware-based private and hybrid clouds including VMware Cloud on AWS as well as native AWS and Azure public clouds.

VMware Cloud Assembly™ gives IT and Cloud Ops teams the ability to automate the delivery of cloud services across multiple clouds while also giving developers access to infrastructure as code.

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