Pure-Play, Standards-based Orchestration for VMware®

Manage applications across vCloud® Air™, vCloud Director, vSphere® , VMware Integrated OpenStack and across clouds.

"The more organizations that use cloud computing in all its incarnations, from private to public clouds, and every option in between, the more they need tools that help them automate and manage these various environments….Cloudify supports multiple clouds and capabilities including compute, storage, and networking. Its new design and capabilities make it a strong shortlist contender as both a cloud application automation framework and a cloud abstraction layer…"

— Laurent Lachal
Senior Analyst, Ovum

VMware vCloud® Air ™ is a secure, dedicated hybrid cloud service operated by VMware, built on the trusted foundation of VMware vSphere®.

The service supports existing workloads and third-party applications as well as new application development, giving IT a common platform for seamlessly extending its data center to the cloud.

Cloudify by GigaSpaces is a TOSCA-based cloud orchestration platform for complex, multi-tier applications. Cloudify for VMware vCloud Air delivers a single point of management across multiple or hybrid environments, whatever the topology or technology stack.

TOSCA-based Orchestration Across the VMware Stack

Cloudify is an open source orchestration platform that integrates natively with the VMware stack, including vCloud® Air™, Cloud Director, VMware Integrated OpenStack and vSphere®.
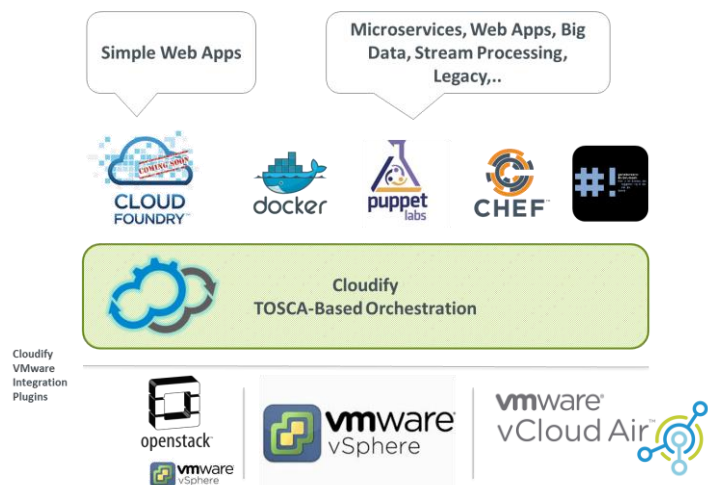
Through the VMware-Cloudify integration, VMware provides its users with a framework for automating the installation, deployment and post-deployment processes (such as monitoring, self-healing, auto-scaling and continuous delivery) of applications in a consistent manner across the VMware stack using a standards-based deployment (TOSCA). VMware users can also use Cloudify to extend their VMware environment into other clouds, to form a true hybrid cloud.

Cloudify is also available as a free service to vCloud Air users within the vCloud® Air™ Blueprinting Service.

TOSCA-based Orchestration with Cloudify

Cloudify blueprints are based on the Topology and Orchestration Specification for Cloud Applications (TOSCA).TOSCA provides an industry standard format for describing an application blueprint. Using the TOSCA standard as its templating language, Cloudify makes transparent any changes at the lower level infrastructure and, thus is able to easily migrate workloads across environments.

By creating TOSCA blueprints, vCloud Air users can fully automate the deployment and configuration of services, from the network and infrastructure up to the application, in a standard based declarative format.

Key Solution Benefits

- Pure-Play, open source orchestration with no lock-in
- TOSCA-based orchestration for VMware hybrid deployments
- Native integration with the VMware stack
- Available as a free service in the vCloud Air Blueprinting Service
- Integration with popular DevOps tools, such as Docker, Chef, Puppet, ElasticSearch, SaltStack, influxdb, etc.
- Support for other clouds
- Supports vCloud Air services, such as networking and database-as-a-service
- Designed for web-scale
- Zero footprint deployment mode
- Integrated topology-driven monitoring
- Built-in policies and workflow for handling installation, self-healing, auto-scaling and continuous delivery processes
- Extensible across the entire stack

vRealize Suite and Cloudify

The vRealize Suite is a cloud management platform that provides a comprehensive management stack for IT services on vSphere and other hypervisors, physical infrastructure and external clouds. Paired with Cloudify, vRealize users can not only manage their VMware assets, but can also manage popular DevOps tools such as Docker for containers, Chef, SaltStack and Puppet for automation, and tools like ElasticSearch, Logstash, influxdb, Grafana and Fabric. Cloudify can also use the information from vRA-OPS to correlate the state of the application with the state of the infrastructure and optimize the resource utilization, ensuring that the application meets its desired SLA.

vCloud Air users can use Cloudify as a service for free as part of the vCloud Air Blueprinting Service.

To learn more about Cloudify's integration with vCloud Air visit the vCloud Air Marketplace at solutionexchange.vmware.com or visit getcloudify.org to try Cloudify today.