

# DATASHEET VMware Cloud

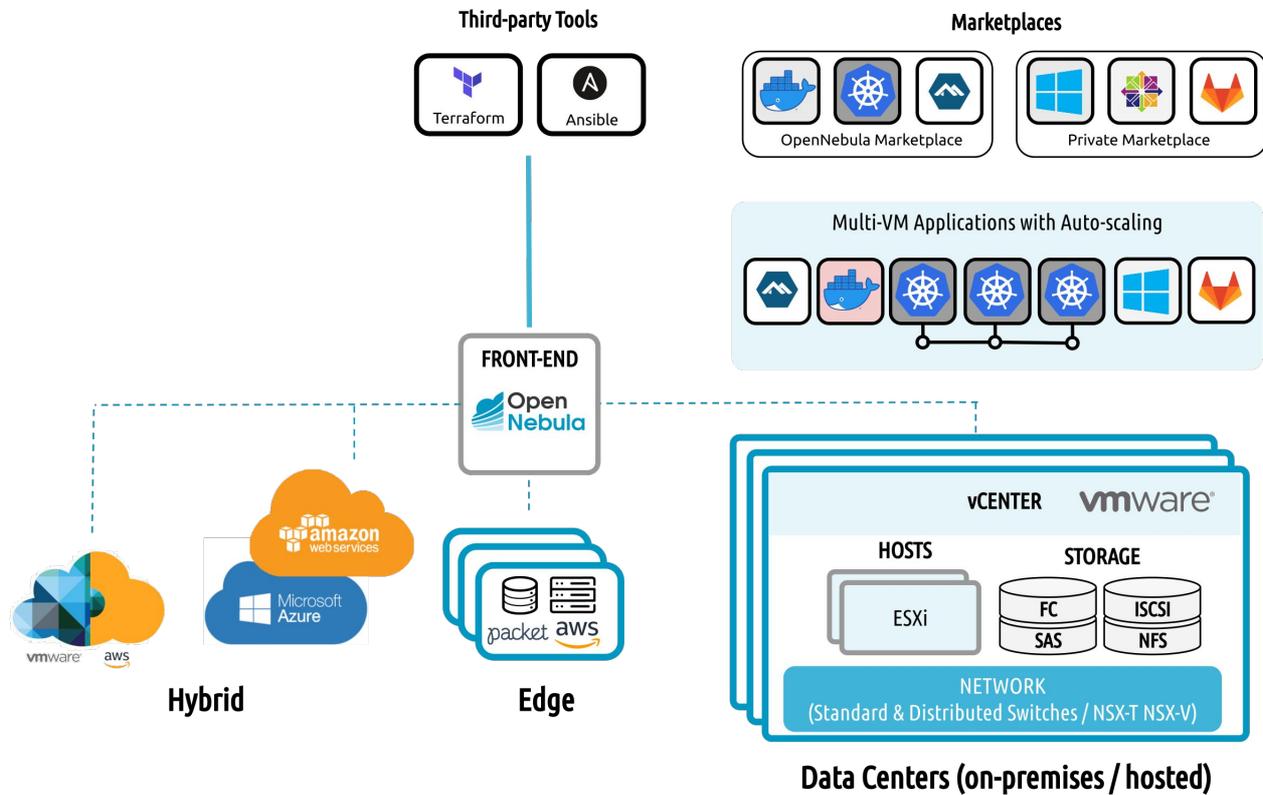


## AT A GLANCE

OpenNebula is intended for companies willing to create a self-service cloud environment on top of their VMware infrastructure without having to abandon their investment in VMware. OpenNebula also makes it possible to take steps towards liberating your stack from vendor lock-in by adding new resources based on open source hypervisors to your cloud. You can manage a distributed collection of vCenter instances across multiple data centers with a single OpenNebula instance.

## KEY BENEFITS

- Seamlessly integrates with **existing vCenter infrastructures** to leverage advanced features provided by the VMware vSphere product family.
- Enables **cloud provisioning, elasticity and multi-tenancy** features on top of vCenter.
- **Very easy** to install, upgrade, and maintain, with easy-to-use graphical interfaces.
- Completely **open, customizable and modular**, so it can be adapted to your needs and components.



## SYSTEM REQUIREMENTS

- Front-end: 2 CPU (4 cores) with 8GB memory, 200GB disk and 2 NICs
- Hypervisors: Depends on the expected workload, recommended to have at least 1GB per core

## SCALABILITY

- Scalability tested with 10,000 VMs on 2,500 servers.
- Horizontally scale your cloud by adding new OpenNebula zones within a federated deployment to grow the size of your cloud beyond these limits.

vOneCloud

**TRY IT NOW!** Go to <https://vonecloud.opennebula.io>

In just five minutes, deploy an enterprise-ready OpenNebula cloud on your VMware infrastructure, and see just how simple OpenNebula is.

More details about OpenNebula and its features at [OpenNebula.io](https://opennebula.io)



## On-Demand Self-Service Provisioning

<b>Application Containers</b>	<input type="checkbox"/> Full support of Docker using Kubernetes for container orchestration
<b>Service Auto-scaling</b>	<input type="checkbox"/> Define and manage services as a group of related VMs, including their interconnection networks and elasticity rules
<b>Service Insight</b>	<input type="checkbox"/> Monitor service specific performance metrics and set elasticity rules based on them
<b>Private Marketplaces</b>	<input type="checkbox"/> Built-in support to build private marketplaces based on S3 and HTTP with automatic conversion of qcow2 images to vmdk
<b>Public Marketplaces</b>	<input type="checkbox"/> Integration with OpenNebula Public Marketplace with pre-built and certified appliances with popular OSS components and OS like k8s, WordPress, Gitlab, Centos or Ubuntu
<b>APIs</b>	<input type="checkbox"/> Ruby, Python, Go and JAVA or XML-RPC
<b>CLI</b>	<input type="checkbox"/> Fully featured UNIX-like command line tools
<b>GUI</b>	<input type="checkbox"/> Sunstone, a modern and simple Web-UI for admins and advance users. Cloud View, a simplified provision portal for end users. Remote access through VNC, SPICE and RDP is integrated in the GUI's

## Resource Management

<b>Authentication</b>	<input type="checkbox"/> Built-in password-based, Active Directory, SSH, X509,LDAP, login tokens and 2FA
<b>Multi-tenancy</b>	<input type="checkbox"/> ACLs, users, groups, resource UNIX-like permissions and VDCs
<b>Capacity Management</b>	<input type="checkbox"/> Limit usage with user/group quotas. Fine-tune VM allocation with dynamic placement constraints and affinity rules. Automatically schedule virtual networks and datastores.
<b>Observability</b>	<input type="checkbox"/> Monitoring, accounting, showback and auditing/traceability
<b>Networking</b>	<input type="checkbox"/> Virtual routers, standard and distributed switches, NSX-V and NSX-T support
<b>Storage</b>	<input type="checkbox"/> Storage pods, linked clones, disk resizing, hotplugging, persistency, VM and image live migration.
<b>Automation</b>	<input type="checkbox"/> Hook system for tailoring and logging, programmable VM operations, and context to further customize VMs based on user input

## Cloud Architectures

<b>High Availability</b>	<input type="checkbox"/> Front-end HA based on RAFT consensus and fully compatible with vCenter HA / DRS / storage DRS
<b>Elastic Private</b>	<input type="checkbox"/> Resource provisioning on bare-metal AWS and Packet, and grow with physical resources from VMware on AWS
<b>Edge Distributed</b>	<input type="checkbox"/> Dynamic geo-distributed private clouds on public cloud resources
<b>Hybrid Cloud</b>	<input type="checkbox"/> Cloud bursting of VMs on AWS and Azure
<b>Federated Cloud</b>	<input type="checkbox"/> Federation of multiple OpenNebula zones for scalability, isolation or multiple-site support
<b>Mixed Hypervisor</b>	<input type="checkbox"/> Support for multi-hypervisor environments that use VMware, KVM, LXD and Firecracker