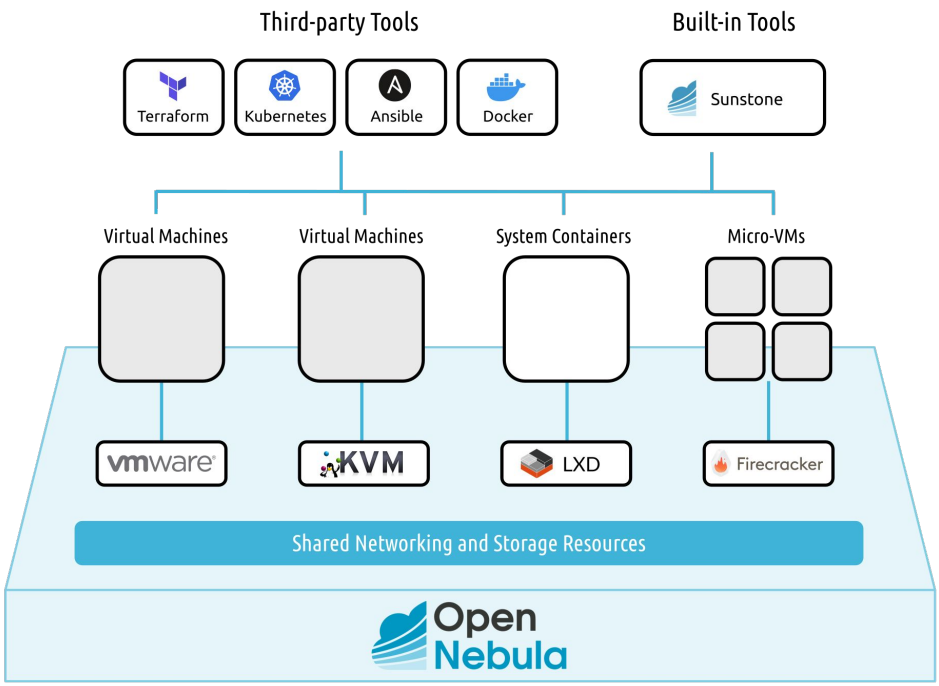
DATASHEET

OpenNebula Key Features

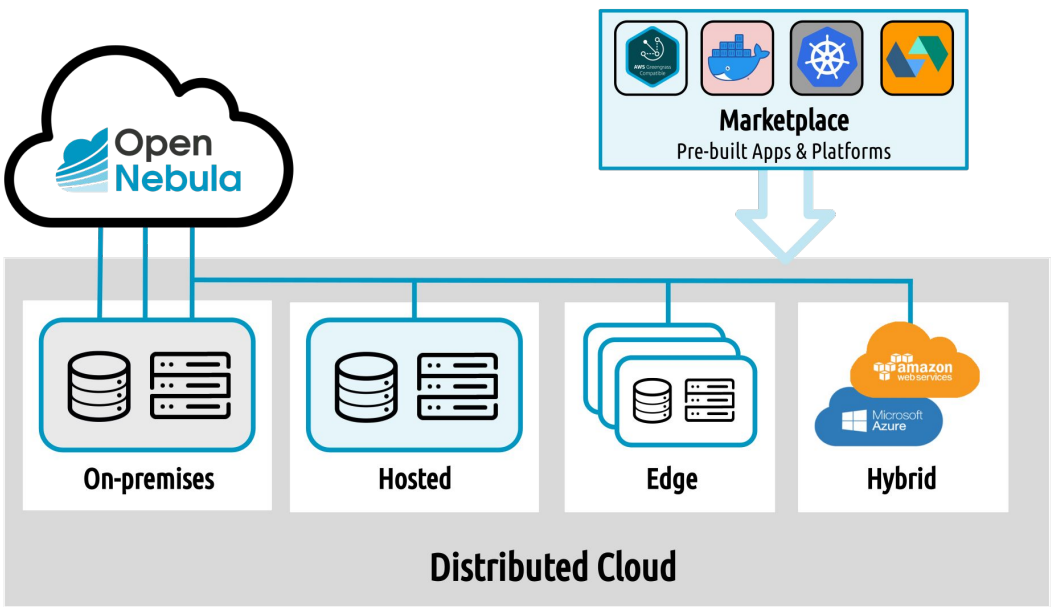


OpenNebula is a simple, yet powerful and flexible turnkey open source solution to build Private Clouds and manage Data Center virtualization based on **VMware**, **KVM**, **LXD** and **Firecracker**. Its integration with **AWS** and **Microsoft Azure** offers flexibility in creating hybrid cloud infrastructures, as well as with **bare-metal providers** like Packet and AWS for trouble-free deployment of **Edge Computing** resources.

And its compatibility with other open source platforms and third-party technologies like **Kubernetes**, **Ansible**, **Docker** and **Terraform** make it a versatile enterprise solution.

OpenNebula's maturity builds upon over a decade of software releases and thousands of enterprise deployments, being widely used by industry and research leaders.

one Cloud to Rule them All



More details about OpenNebula and its features at OpenNebula.io

OpenNebula Key Features

Interfaces	❑ Simple, clean, intuitive **GUI** for users and admins with different views ❑ Powerful **CLI** that resembles typical UNIX commands applications ❑ **API** in multiple languages
Application Management and Catalog	❑ Easy **self-provision** of applications and services from a catalog ❑ **Secure sharing** of applications with other cloud users ❑ Multi tier applications with auto-scaling ❑ Gain **insight into applications** to query their status and metrics, and use them in auto-scaling
Appliance Marketplace	❑ **Public Marketplace** with pre-built applications (PaaS, K8S, CI/CD…) ❑ Build your **private Marketplace** to share and distribute applications within your organization.
Chargeback	❑ Fine-grained **accounting** and **monitoring** ❑ **Showback** capability enabling the integration with **chargeback** and **billing** systems
Capacity and Performance Management	❑ **Fine-grained ACLs** for resource allocation ❑ **Resource Quota Management** to track and limit resource utilization ❑ Dynamic creation of **Clusters** as pools of hosts ❑ Dynamic creation of **Virtual Data Centers** as fully-isolated virtual environments ❑ **Federation of multiple Zones** for scalability, isolation or multiple-site support ❑ Powerful and flexible **Scheduler** - deploy your workfload in different locations
High Availability and Business Continuity	❑ **High availability** architecture ❑ **Persistent database backend** with support for high availability configurations ❑ Configurable behavior in the event of failure for cost-effective **failover solutions**
Virtual Infrastructure Management	❑ Virtual infrastructure management adjusted to **enterprise data centers** ❑ **Complete life-cycle management** of virtual resources ❑ Powerful **hooking** system ❑ **Full control, monitoring and accounting** of virtual infrastructure resources ❑ Fine-grained **multi-tenancy**
Distributed and Edge Cloud	❑ Dynamically grow your private cloud with **bare-metal cloud providers** ❑ **Automatic provision of remote resources**
Hybrid Cloud	❑ Native support for **Cloud Bursting** with connectors for main cloud providers
Platform	❑ Fully **platform independent** ❑ Broad support for commodity and **enterprise-grade infrastructure platforms** ❑ Packages for major **Linux distributions**
Security	❑ **Fine-grained ACLs** and **user quotas** ❑ Powerful **user, group and role management** ❑ Integration with **enterprise and open-source user management services** ❑ **Login token** functionality ❑ **Fine-grained auditing** ❑ Support for **isolation at different levels**
Integration With Third-Party Tools	❑ **Modular** and **extensible** architecture ❑ **Customizable** plug-ins for integration with any third-party data center service ❑ **API** for integration with higher level tools such as billing, self-service portals…
Licensing	❑ **Fully open-source software** released under Apache license
Upgrade Process	❑ **Automatic import of** existing environments ❑ All key functionalities for enterprise cloud in a **single install** ❑ Long term stability & performance through a **single patching and upgrade process**
Quality Assurance	❑ Internal **quality assurance process** ❑ Technology matured through an **active and engaged large community** ❑ Scalability, and performance tested on **many massive scalable deployments**
Product Support	❑ Best-effort community support ❑ **SLA-based commercial support** directly from the developers

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Reference: OpenNebula Key Features - Rev20200205