

Designed to ensure fast and efficient delivery of business services, OpenNebula provides the flexibility and rapid innovation of open-source, with stability and long-term production support of commercial software. Compared to other open-source alternatives, the direct expert production and integration support delivered by the OpenNebula developers and the high stability of the software increase IT productivity, speed time to deployment, and reduce business and technical risks. Compared to other commercial alternatives, OpenNebula is an adaptable and interoperable cloud management solution that delivers enterprise-class functionality, stability and scalability at significantly lower costs.

## Flexible Enterprise Cloud Made Simple

### Stable Certified Distribution

- OpenNebula is certified for the most common Linux distributions and on the most popular open-source and commercial hypervisors.

### Regular Maintenance Releases

- The source code and binary packages of each OpenNebula series are regularly updated to incorporate fixes and minor enhancements.

### Long Term Lifetime

- OpenNebula has a multi-year life cycle with support and update policies that maintain its stability and compatibility for the long-term.

### Commercial Support Options

- OpenNebula Systems' support subscriptions provide long-term with professional SLAs, guaranteed patches, regular updates and upgrades, product influence, and privacy and security guarantee.

### Professional Services Options

- OpenNebula Systems offers a comprehensive set value-added consulting, engineering and training services to help design, deploy and operate the best cloud architecture for your infrastructure environment.

### Customization

- OpenNebula can be adapted to meet the performance, integration and configuration requirements of an organization's infrastructure, processes or use cases.


### Licensing Flexibility


- OpenNebula is available under Apache v2.0 license, and can be released under a different license to meet customer's and partner's needs and requirements.


### Indemnification


- OpenNebula Systems protects customers from any liabilities stemming from the open source code.


## Why OpenNebula?


 **Open.** Fully open-source (not open-core) software released under the Apache license


 **Adaptable.** Highly customizable to fit into your data center and leverage existing IT investments


 **Proven.** Rigorously tested, mature, widely used, and many massive scale deployments

 **Powerful.** Innovative functionality for enterprise clouds and data center virtualization

 **Interoperable.** Choice of interfaces and formats, from open cloud, to de-facto standards

 **No Lock-in.** Broad infrastructure support and platform independent on VMware and KVM

 **Very Light.** Highly efficient, easy to install and update, with packages for the main Linux distributions

 **Enterprise-ready.** Single installing and updating process, and community and commercial support

# OpenNebula Key Features



## Interfaces for Cloud Consumers

- Simple, clean, intuitive **Portals** for cloud consumers and VDC admins
- On-demand provision of **Virtual Data Centers**

## Service Management and Catalog

- **Automatic installation and configuration** of application environments and their secure sharing with other cloud users
- **Automatic execution and elasticity of multi-tiered applications** and their provision from a catalog and self-service portal
- **Gain insight into cloud applications** to easily query through OpenNebula interfaces their status and metrics, and use them in auto-scaling rules

## Interfaces for Administrators

- Powerful **CLI** that resembles typical UNIX commands applications
- **SunStone Portal** for administrators and advanced users

## Appliance Marketplace

- **OpenNebula Marketplace** with a catalog of virtual appliances
- Deployment of your private **centralized catalog of cloud applications** to share and distribute virtual appliances across OpenNebula instances

## 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**

## High Availability and Business Continuity

- **High availability architecture**
- **Persistent database** backend with support for high availability configurations
- Configurable behavior in the event 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**

## Hybrid Cloud

- Native support for **Cloud Bursting** with connectors for main cloud providers

## Platform

- Fully **platform independent**
- **Broad support** for commodity and enterprise-grade hypervisor, monitoring, storage, networking and user management services
- 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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