



Migrating from VMware to OpenNebula

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Abstract

Migrating a cloud deployment requires careful planning, execution, and consideration of various factors. A migration typically includes tasks such as assessing existing infrastructure and workloads, evaluating compatibility and interoperability between platforms, and developing a migration plan that minimizes disruption to operations. Additionally, data migration, application compatibility, and networking considerations are essential aspects of the migration process.

By leveraging best migration practices, OpenNebula guides your organization to successfully transition from a VMware environment to an OpenNebula cloud ecosystem, unlocking benefits such as increased flexibility and technology agnosticism, helping you to avoid vendor lock-in, and achieving cost savings and scalability for your cloud infrastructure.

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Acronyms and Abbreviations

AD	Active Directory
CMDB	Configuration Management Database
CPU	Central Processing Unit
DC	Datacenter
DPDK	Data Plane Development Kit
GPU	Graphics Processing Unit
HA	High Availability
HCI	Hyper Converged Infrastructure
LUN	Logical Unit Number
NAS	Network Attached Storage
NFS	Network File System
NIC	Network Interface Card
NUMA	Non-Uniform Memory Access
RADOS	Reliable Autonomic Distributed Object Storage
SAN	Storage Area Network
VDC	Virtual Datacenter
VM	Virtual Machine
VNC	Virtual Network Computing
VNF	Virtual Network Functions

1. About OpenNebula

OpenNebula¹ is a simple, but powerful, open source solution to build and manage Enterprise Clouds and Edge environments. It combines existing virtualization technologies with advanced features for multi-tenancy, automatic provision, and elasticity to offer on-demand applications and services. OpenNebula provides a single, feature-rich and flexible platform with **unified management of IT infrastructure and applications that avoids vendor lock-in and reduces complexity, resource consumption and operational costs**. OpenNebula manages:

- **Any Application:** Combine containerized applications from Kubernetes with Virtual Machine workloads in a common shared environment to offer the best of both worlds: mature virtualization technology and orchestration of application containers.
- **Any Infrastructure:** Open cloud architecture to orchestrate compute, storage, and networking driven by software.
- **Any Cloud:** Unlock the power of a true hybrid, edge and multi-cloud platform by combining your private cloud with infrastructure resources from third-party virtual and bare-metal cloud providers such as AWS and Equinix Metal, and manage all cloud operations under a single control panel and interoperable layer.
- **Any Time:** Add and remove new clusters automatically in order to meet peaks in demand, or to implement fault tolerance strategies or latency requirements.

Have a look at our [Case Studies](#) and [Success Stories](#) to learn more from our users and customers about how they are putting OpenNebula to work.

2. Transitioning Your Cloud to OpenNebula

Migrating a cloud environment from one platform to another is a complex and very challenging endeavor. Compatibility issues may arise due to differences in infrastructure, services, and configurations between the source and target platforms. Adapting existing applications, data, and workflows to fit the new environment—at the same time ensuring compatibility with dependencies and integrations—requires meticulous planning and execution.

OpenNebula offers a comprehensive set of tools and services to guide you in the process of adapting OpenNebula Cloud Orchestration software to your migration project. OpenNebula has developed [OneSwap](#), a migration tool designed to provide a smooth VM Migration path from vCenter to OpenNebula KVM. OneSwap has been used in the field with a 96% success rate in converting VMs automatically, simplifying and speeding up the migration process.

Moreover, OpenNebula has launched its [VMware Migration Service](#), a complete, exhaustive guidance and support offering conceived to help your organization define and execute your migration plan, adapting to each specific case and minimizing disruption to business operations. OpenNebula's highly skilled cross-functional team guides you through the migration by leveraging expertise in cloud architecture and VMWare deployments, applying a combined set of migration strategies, methodologies and tools to navigate the complexities and effectively overcome the challenges to a successful migration.

¹ <https://support.opennebula.pro/hc/en-us/articles/360036935791-OpenNebula-Overview-Datasheet>

2.1. Virtual Machine Operations

In a cloud infrastructure, virtual machine operations are essential for efficiently managing and maintaining the virtualized environment. These operations include tasks such as provisioning virtual machines, which involves creating instances of virtual machines from predefined templates or images. OpenNebula enables cloud administrators to perform tasks such as starting, stopping, pausing, and restarting virtual machines to manage their lifecycle according to workload requirements.

OpenNebula's capabilities for machine monitoring address another critical aspect: the need for continuous tracking of performance metrics—such as CPU and memory usage, disk I/O and network traffic—in order to ensure optimal performance and allocation of resources. Tasks like resizing virtual machines, adjusting resource allocation, managing snapshots, and performing cold or live migrations of virtual machines between hosts, are carried out to optimize the use of available resources, enhance scalability, and maintain high-availability workloads.

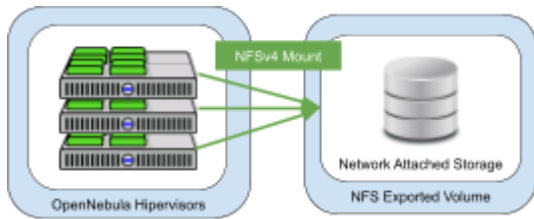
VMware Setup	OpenNebula Setup	OpenNebula Features
VMware Resource Management and Monitoring	OpenNebula VM Management and Monitoring	Stateless and Persistent VM deployments are supported. Complete VM Life Cycle states and fail-over recovery. Full VM built-in monitoring and Prometheus exporter
VMware vMotion	VM Advanced Ops	Cold and Live migrations, snapshots, cloning, and thin provisioning are available
Guest VM OS Interaction	OpenNebula Sunstone VNC Console	Securely accessing and managing a guest's operating system running within the VM
VMware Tools	OpenNebula Contextualization	VM contextualization scripts are available for Linux, Windows and FreeBSD

2.2. Storage

As organizations seek to migrate from VMware to OpenNebula, they encounter a variety of VMware storage setups, each posing its own challenges and demands. As a robust and comprehensive response to these diverse VMware configurations, OpenNebula offers a world of storage solutions. The key differentiator offered by OpenNebula is a comprehensive array of storage scheduling policies, which empowers administrators with fine-grained control over resource allocation.

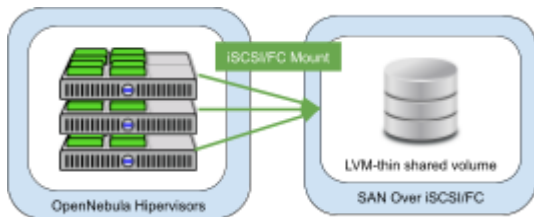
With OpenNebula it is possible to assign multiple datastores to each cluster, fostering flexibility and scalability. This makes it possible to create separate storage tiers, which can be conveniently assigned to different tenants and simultaneously consumed by Virtual Machines.

VMware Setup	OpenNebula Setup	OpenNebula Features
NAS over NFS	NAS datastores	Hypervisor hosts will mount one (or more) shared volumes located on a NAS (Network Attached Storage) server over NFS. OpenNebula shared drivers with qcow2 image format support provide full storage functionalities, including



Host High Availability, cold and live migration, VM system snapshots, and thin provisioning.

SAN over iSCSI/FC LVM Thin-FS Datastores

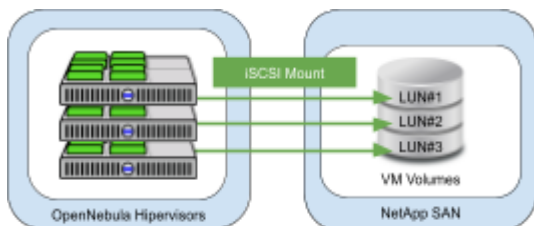


Hypervisor hosts will locally mount a shared LVM volume over a LUN device exported by SAN using the iSCSI/FC protocol.

OpenNebula LVM-thin storage drivers will manage the LVM volume to orchestrate the life cycle of VM disk images providing full storage functionalities, including VM cold/live migration, disk image snapshots, and thin provisioning (for VM disk image snapshots).

* VM System snapshot feature is not available

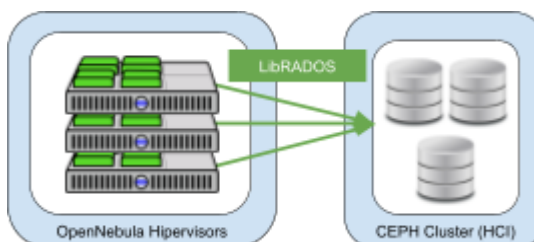
NetApp SAN over iSCSI NetApp SAN Datastore (Enterprise Edition)



OpenNebula will orchestrate the live cycle of VM disk images exported by the NetApp SAN appliance by using the native NetApp ONTAP SAN Datastore (only available in OpenNebula Enterprise Edition) and mounting the exported LUNs locally on the target Hypervisor, providing full storage functionalities, including cold/live migration, disk image snapshots, and thin provisioning.

* VM System snapshot feature is not available

VSAN Ceph datastores, using dedicated HW or HCI



Hypervisor hosts will use the CEPH RADOS protocol to access the VM disk images stored in a CEPH Cluster (deployed in a dedicated HW or in a HCI configuration). CEPH Datastores provide excellent redundancy and resilience, avoiding a single point of failure. Additionally, OpenNebula CEPH datastore drivers provide full storage functionalities, including Host High Availability, cold and live migration, disk image snapshots, and thin provisioning.

* VM system snapshots are not available

2.3. Networking

Cloud network operations are essential for ensuring seamless communication and connectivity within the cloud infrastructure and services. These operations play a crucial role in ensuring reliable, secure, and high-performance connectivity in cloud environments.

OpenNebula network operations encompass feature-rich tasks conceived for configuring, managing, and optimizing network resources for your cloud deployment. These operations include assigning and managing IP subnets and addresses, configuring virtual networks and adapters, and setting up policies for traffic shaping and Quality of Service (QoS). All of these tasks facilitate monitoring, prioritization and distribution

of network traffic, as well as managing firewall rules in order to establish secure and efficient network connections for virtual machines and cloud deployments.

VMware Setup	OpenNebula Setup	OpenNebula Features
VMware dvSwitch	VLAN 802.1Q Networks VxLAN Networks OpenvSwitch Networks	Network isolation is provided for each OpenNebula Virtual Network by creating a Linux bridge and attaching it to a VLAN/VxLAN tagged network interface. The OpenvSwitch network driver provides network isolation using VLANs and basic network filtering using OpenFlow.
VMware NSX-T NSX-V	OpenNebula VNF app OpenNebula Security Groups	The OpenNebula VNF app solves most common use cases in Virtual Network management, such as: Keepalive, Failover and High-Availability for VNF apps; IPv4 Routing functions and SNAT+DNAT IPv4 features; HAProxy for robust layer4 (TCP) reverse-proxy and load-balancing; DNS server and recursor; and DHCP4 services. OpenNebula Security Groups provide fine-grained firewall rules to control Inbound/Outbound network traffic for Virtual Networks and VM instances.

2.4. Authorization and Access Control

In a cloud infrastructure, authorization and access control operations involve implementing policies and mechanisms to manage user access and permissions effectively. Cloud administrators define user roles and privileges, specifying who can access which resources and perform which specific actions within the cloud environment.

OpenNebula enables the use of fine-grained Access Control Policies—based on attributes such as user roles, groups, or resources—to enforce least-privilege principles and limit access to sensitive data and critical resources. Robust and efficient authorization and access control operations are essential for maintaining the confidentiality, integrity, and availability of resources in a cloud infrastructure.

VMware Setup	OpenNebula Setup	OpenNebula Features
Active Directory	LDAP Authentication Active Directory	OpenNebula Active Directory allows centralized authentication and group mapping.
Quotas Resource Pool	Quota Control	User and Group quotas for system resources allow the system administrator to set limits on cloud resources usage.
Single Sign-On	SAML Support	SAML Authentication driver allows users to access OpenNebula by logging in into a trusted SAML Identity Provider, allowing effectively Single Sign-On features

2.5. Capacity Planning

In a cloud infrastructure, capacity planning entails the strategic management of resources to efficiently meet current and future demands. This is achieved by assessing existing resources and adapting cloud deployments on the basis of usage patterns and resource consumption. Based on this information, your organization develops scaling strategies to handle service fluctuations on demand, balancing performance and cost considerations.

Continuous monitoring of resource utilization and performance metrics is crucial for identifying bottlenecks, optimizing resource allocation and provisioning tools to enable rapid deployment of resources, enhancing agility and scalability. An efficient capacity planning ensures that cloud infrastructure meets Service Level Agreements (SLAs) for performance, availability, and reliability in order to guarantee business continuity.

VMware Setup	OpenNebula Setup	OpenNebula Features
vSphere Resource Monitoring	OpenNebula Monitoring System OpenNebula Usage Forecast	<p>Built-in VM, hypervisor and virtual network monitoring Prometheus exporters and Grafana dashboards, to visualize Virtual Machine and Host information and the overall status of the OpenNebula cloud. By using Prometheus Alert Manager, it is possible to supervise OpenNebula Cloud Services and establish alerts based on cloud resource metrics.</p> <p>The OpenNebula Resource Forecast system provides predictive insights into resource utilization across Hosts and Virtual Machines. By analyzing trends in CPU, memory, network, and disk usage, it allows administrators to proactively manage infrastructure, optimize resource allocation, and prevent performance bottlenecks.</p>
VMWare Distributed Resource Scheduler (DRS)	OpenNebula Distributed Resource Scheduler (DRS)	The OpenNebula Distributed Resource Scheduler (DRS) optimizes resource allocation and prevents resource contention within a single OpenNebula cluster. It integrates with OpenNebula's built-in monitoring and forecasting systems, considering real-time Virtual Machine (VM) and Host usage metrics as well as predictions of future resource consumption.
VM Deployment	OpenNebula Scheduler	During initial deployment, OpenNebula Scheduler ranks available resources (compute, hosts, datastores, and virtual networks) to balance cloud infrastructure.
Affinity and Anti-Affinity Rules	OpenNebula VM Groups and VM Roles	Through VM Groups and VM Roles, it is possible to assign affinity or anti-affinity rules based on compute resources and/or service constraints, to ensure SLA compliance and cloud availability.
vSphere AutoScaler	OpenNebula OneFlow	OneFlow orchestrates multi-VM services to enable elasticity and service-aware deployments based on VM Roles and fine-grained customizable scale conditions, through OneGate VM Host communication.

Quotas Resource Pool	Quota Control Use cgroups & vCPU	User and Group quotas for system resources allow the system administrator to set limits on cloud resources usage. OpenNebula will compute the shares assigned to the Virtual Machine using Linux <i>cgroups</i> , in order to control usage of compute resources in the hypervisor.
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2.6. Backups

Backup strategies in cloud environments are essential for ensuring the safety, availability, and integrity of data and services. Designing backup strategies involves identifying critical data, determining backup frequency, and selecting appropriate methods such as full, incremental, or differential backups. By implementing robust backup strategies tailored to their needs, your organization is in the best position to minimize data loss, mitigate risks, and maintain business continuity in cloud environments.

VMware Setup	OpenNebula Setup	OpenNebula Features
Veeam Backup	OpenNebula-Veeam Backup Integration	<p>The OpenNebula-Veeam® Backup Integration provides robust, agentless backup and recovery for OpenNebula VMs using Veeam Backup & Replication. The integration works by exposing a native oVirt-compatible REST API (via the ovirtAPI server component), allowing Veeam to connect to OpenNebula as if it were an oVirt/RHV hypervisor.</p> <p>The OpenNebula-Veeam Backup Integration enables Veeam to perform image-level backups, incremental backups by using Changed Block Tracking, as well as granular restores like Full VM and file-level directly from the Veeam console. This integration is part of OpenNebula Enterprise Edition (EE)</p> <p>The complete backup and restore life cycle can be managed transparently in the Veeam Console</p>
Third-Party Backup Solutions	OpenNebula Restic Built-in Backup Solution	<p>OpenNebula Restic is an open source (BSD 2-Clause License) backup tool designed for speed, security and efficiency. Restic offers interesting features for backup storage such as deduplication, efficient compression, and backup I/O Throttling to reduce backup execution impact on the hypervisor. Single or multiple VM backup jobs are supported, to provide customizable backup policies.</p> <p>The complete backup and restore life cycle can be entirely managed through the OpenNebula Sunstone Interface</p>

2.7. Container Management

Kubernetes Cluster API is a set of declarative APIs and tooling for simplifying and automating the provisioning, upgrading, deletion, and operation of multiple Kubernetes clusters in a declarative and extensible way, as if they were workloads of a management Kubernetes cluster.

OpenNebula provides support for Cluster API through its own implementation of the Cluster API (CAPONE) to simplify the deployment, operation, and scaling of standard Kubernetes clusters on Virtual Machines. Cluster API (CAPONE) enables your organization to streamline Kubernetes cluster deployments, from development to production. This approach enables a standardized interface to orchestrate deployed Kubernetes clusters with open-source container management platforms, like Rancher.

VMware Setup	OpenNebula Setup	OpenNebula Features
Tanzu	OpenNebula's Kubernetes Cluster API Integration OpenNebula's Cluster API Appliance	OpenNebula implements the Cluster API (CAPONE) to easily provision and operate Kubernetes clusters. It interacts with OpenNebula for the provisioning of dedicated VMs—via the OpenNebula Cloud Provider —to build the Kubernetes workload cluster, including control plane nodes. Additionally, OpenNebula provides a Container Storage Interface (CSI) driver that enables dynamic provisioning and management of persistent volumes directly from OpenNebula storage backends, ensuring seamless integration with Kubernetes workloads. The resulting Kubernetes clusters can be easily adopted and orchestrated through SUSE Rancher, for example by using the OpenNebula Cluster API Appliance , which simplifies lifecycle management and governance.

2.8. Elasticity

In cloud environments, elasticity allows dynamic upscaling or downscaling of computing resources in response to changing workload demands. OpenNebula's elasticity features allow your organization to efficiently allocate resources based on current requirements, optimizing performance and cost-effectiveness. By automatically provisioning or deallocating resources as needed, elasticity enables cloud infrastructures to handle sudden spikes in traffic or workload, without the need for manual intervention.

VMware Setup	OpenNebula Setup	OpenNebula Features
vSphere Auto Scaling	OpenNebula OneFlow OpenNebula OneGate	Based on customizable metrics, OneFlow orchestrates multi-VM services as a whole, providing elastic service-aware cloud deployments capable of scaling on demand. The OneGate service allows Virtual Machines (and therefore OneFlow Services) to pull and push customized information and metrics from/to OpenNebula in order to scale automatically.

2.9. Resource Organization

Resource organization involves structuring and managing cloud resources such as virtual machines, storage, or networking components into logical groups, on the basis of factors such as department, project, or function. Organizing resources simplifies their allocation, monitoring, and access control, enhancing visibility and control over the environment. Additionally, cloud administrators can manage compute resources by defining resource pools and using categories such as clusters, data centers and zones, allowing for efficient resource usage and workload distribution.

VMware Setup	OpenNebula Setup	OpenNebula Features
Folders	OpenNebula Labels	OpenNebula Labels enables the possibility of grouping different resources under a given label and filtering them in the Sunstone web interface. The user can easily find templates or select a set of resources to apply a given action.
DataCenters	OpenNebula Zones	The OpenNebula Federation is a tightly-coupled integration of several instances of OpenNebula Front-ends, each called a "Zone." Each Zone shares the same configuration for user accounts, groups, and permissions. OpenNebula Federation allows end users to consume the resources no matter where they are, with seamless integration.
Profiles	Cloud Access Model and Roles	OpenNebula offers a flexible and powerful cloud provisioning model to efficiently isolate resources for medium and large deployments. OpenNebula's Virtual Data Centers (VDCs) model enables an integrated, comprehensive framework to dynamically provision infrastructure resources in large multi-datacenter and multi-cloud environments to different customers, business units, or groups.

2.10. Datacenter Components Integration

OpenNebula enables datacenter components integration in cloud deployments, incorporating various tools and systems such as firewalls, Configuration Management Databases (CMDBs), and billing platforms into the cloud infrastructure.

By integrating these components, your organization bolsters security controls, streamline operations, and optimize resource management.

VMware Setup	OpenNebula Setup	OpenNebula Features
NVIDIA vGPU/MIG NVIDIA GPU	OpenNebula NVIDIA vGPU & MIG	OpenNebula supports GPU-based workloads on your instances by managing virtual GPU (vGPU), MIG and GPU

Passthrough	OpenNebula NVIDIA GPU Passthrough Generic Quotas for PCI Devices	passthrough resources according to the available physical GPU devices and the hypervisor type. Additionally, it is possible to establish generic quotas for PCI devices to control GPU/vGPU/MIG device consumption for users and groups.
NUMA Awareness, CPU Passthrough and CPU pinning HugePages	NUMA Awareness CPU Passthrough CPU Pinning HugePages	OpenNebula offers a great deal of flexibility to define virtual NUMA topologies and map them to the physical configuration of the host, including several pinning policies and support for asymmetric configurations. Additionally, OpenNebula enables the use of memory pages larger than the standard size.
vSphere DPDK	OpenNebula DPDK	OpenNebula creates and configures OpenvSwitch bridges and ports in combination with NUMA+Hugepages.
PCI Passthrough	OpenNebula PCI Passthrough	OpenNebula tracks and allocates devices to guests, and also allows admins to select which devices can be hotplugged. Network devices are also integrated with the Network stack, allowing guests to identify passthrough devices.
CMDB	OpenNebula Hooks	The OpenNebula Hook subsystem enables the execution of custom scripts tied to a change in state of a particular resource or API call. For systems administrators, this opens a wide spectrum of integrations, enabling them to tie OpenNebula events to API-capable third-party CMDB solutions and to further tailor their cloud infrastructures.
Billing	OpenNebula Accounting OpenNebula Showback OpenNebula XML-RPC API WHMCS Tenants Module (EE)	<p>OpenNebula Built-in Accounting tool addresses the accounting of virtual resources. It includes resource consumption of the Virtual Machines as reported from the hypervisor.</p> <p>OpenNebula Built-in Showback toolset reports resource usage cost and allows the integration with chargeback and billing platforms. The toolset generates showback reports using the information retrieved from OpenNebula.</p> <p>OpenNebula XML-RPC API is designed to provide information regarding the accounting for cloud resources in order to interface with existing billing solutions.</p> <p>OpenNebula Enterprise Edition provides a WHMCS Module that allows you to automate the creation and management of Users, Groups, and their ACLs within OpenNebula, and also provides billing based on their usage metrics.</p>

3. Summary

Building and managing clouds with OpenNebula bring **significant benefits** by elevating both infrastructure flexibility and business agility. This flexibility, coupled with the **open nature of OpenNebula**, translates to **lower financial and operational costs** compared to VMware's licensed solutions, making OpenNebula an attractive option for your organization aiming to optimize IT budget and infrastructure.

OpenNebula provides the most in-demand management features to build clouds for companies and service providers, matching the features offered by vCloud Director and vRealize at a fraction of the cost.

OpenNebula's vendor-neutral approach supports a wide range of hypervisors and storage technologies as well as advanced networking solutions and topologies. **This allows your organization to leverage existing investments**, choose the best technologies for a **successful migration from VMware**, and **avoid present and future vendor lock-in**, granting you greater control over the infrastructure and strengthening the negotiating position of your company. Moreover, OpenNebula's extensive capabilities for integration offer your organization the ability to comprehensively tailor cloud infrastructure to specific needs—without the constraints imposed by proprietary systems—enabling seamless integration with existing IT services, systems and tools.

OpenNebula's user-friendly and customizable cloud views make it easily accessible for users with heterogeneous levels of expertise, from regular cloud users to expert cloud administrators. Additionally, OpenNebula's **comprehensive documentation** reduces the learning curve associated with adopting new technologies, and its **robust APIs and SDKs facilitate automation and integration** with third-party applications and services, further enhancing its versatility and extensibility.

4. Value of an OpenNebula Subscription

An annual OpenNebula enterprise subscription opens the gate to stability and excellence within your OpenNebula infrastructure. For starters, subscribers to OpenNebula's Enterprise Edition gain access to the Enterprise repository and Tools, as well as the Enterprise Portal and the exclusive contents of its Knowledge Base. On top of this, Standard and Premium Plans offer the assurance and security of counting on experts, who provide support for your solution according to SLA guidelines. Enterprise Subscriptions provide expert advisory and support for integration and production on supported platforms, and include:

- ✓ Answering questions about migration best practices and product usage and integration
- ✓ Offering tips on best suitable available features and how to adapt to missing features
- ✓ Guidance on tuning for optimal and scalable performance in your migrated environment
- ✓ Solving unexpected problems when using, installing, configuring, or deploying the software
- ✓ Problem diagnosis, resolution, and bug fixing

5. Test OpenNebula. Trust OpenNebula

OpenNebula offers a [dedicated evaluation experience](#) through its miniONE tool—a lightweight deployment utility that lets users explore OpenNebula in just minutes. miniONE automatically configures a front-end with integrated KVM, delivering a fully functional, distributed cloud environment ideal for evaluation, development, and testing. In only a few steps, users can experiment with VM lifecycle management and Kubernetes cluster deployment. For production environments, OneDeploy extends this simplicity by using Ansible-based playbooks to automate the rollout of a complete, enterprise-grade OpenNebula cloud.

Contact us to discuss your specific requirements and receive expert guidance on your cloud strategy, or schedule a live demo with one of our OpenNebula engineers to see the platform in action.

LET US HELP YOU DESIGN, BUILD, AND OPERATE YOUR CLOUD



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