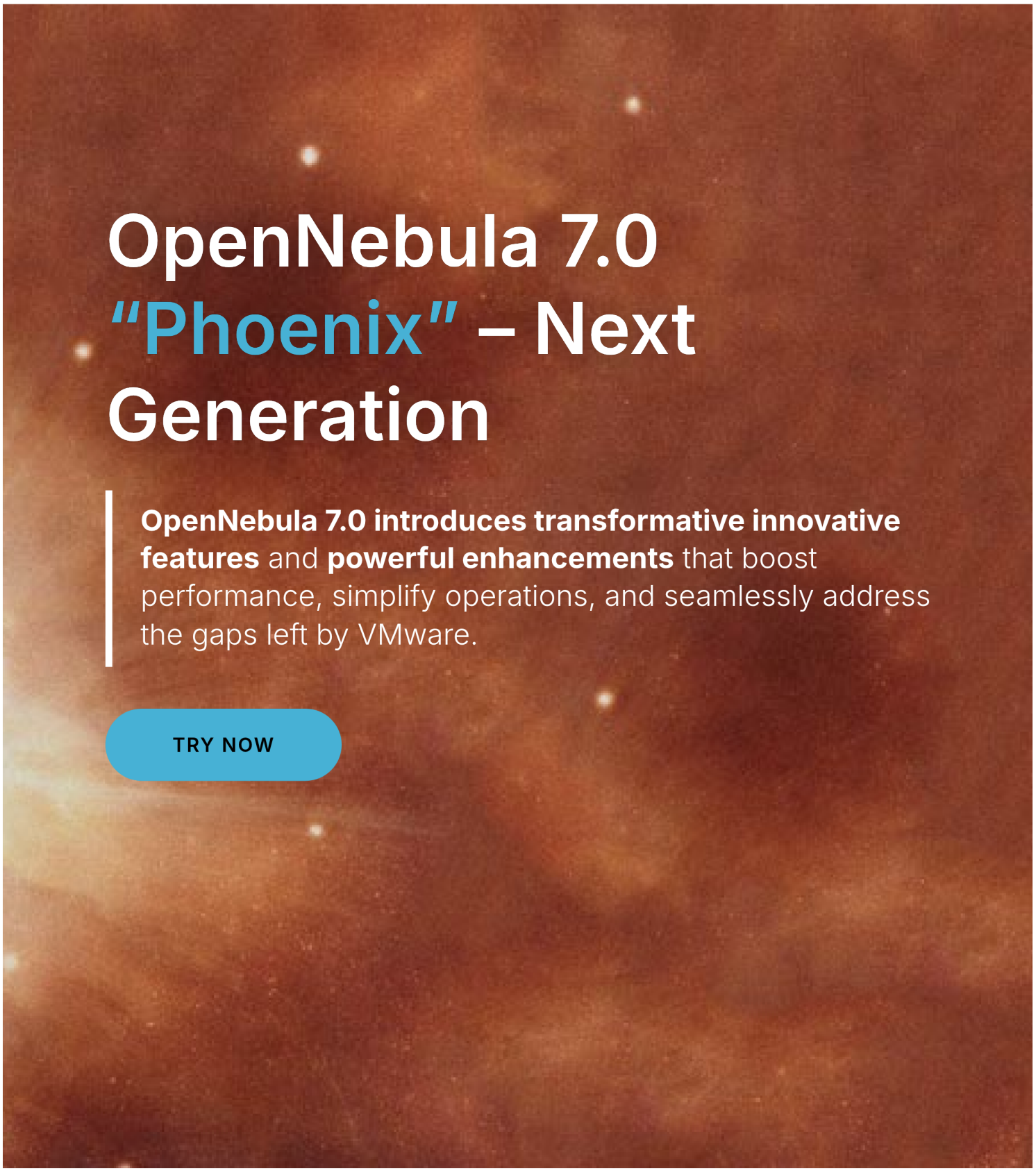
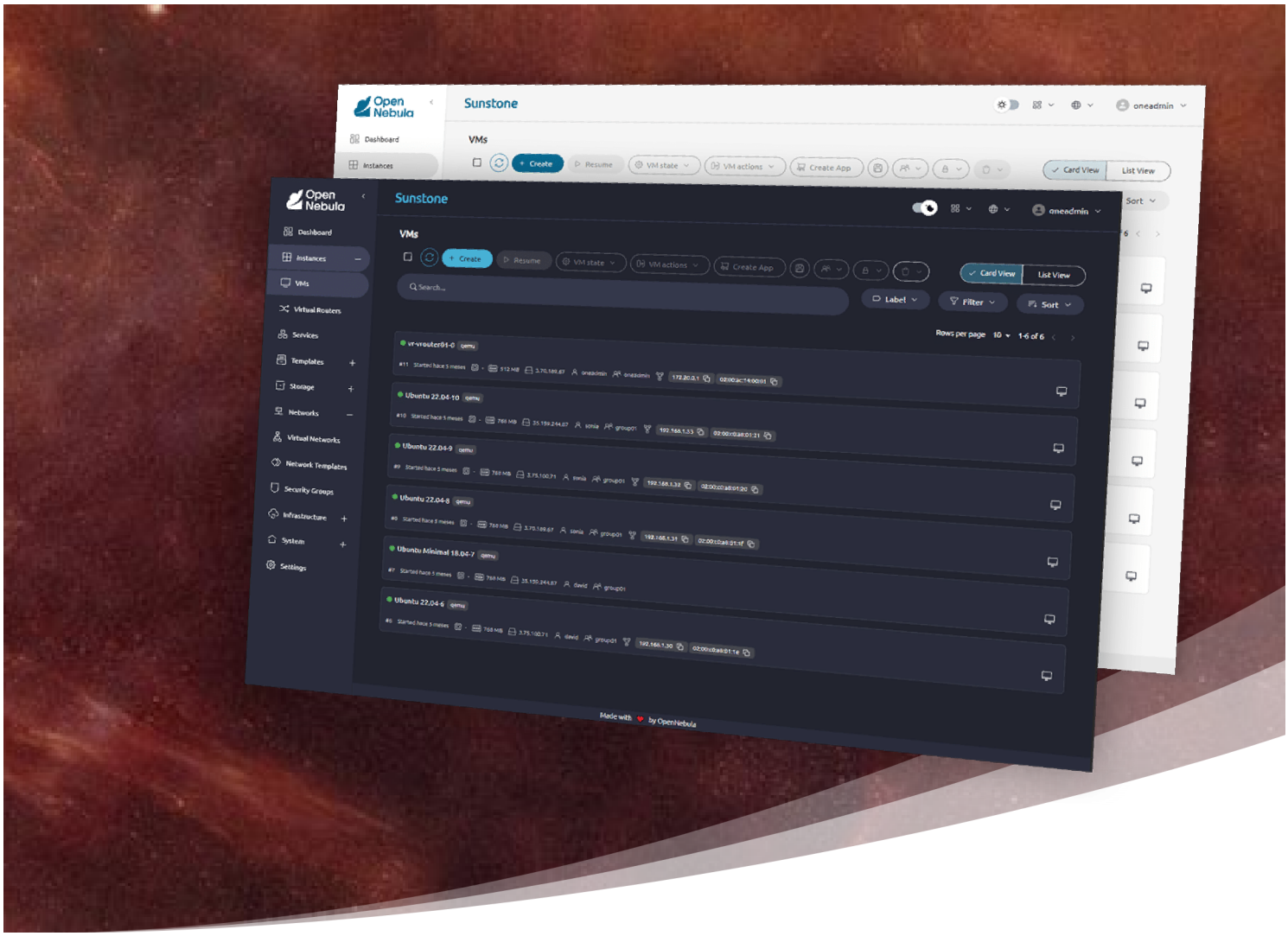
Open Nebula


OpenNebula 7.0
“Phoenix” – Next Generation
OpenNebula 7.0 introduces transformative innovative features and powerful enhancements that boost performance, simplify operations, and seamlessly address the gaps left by VMware.
TRY NOW

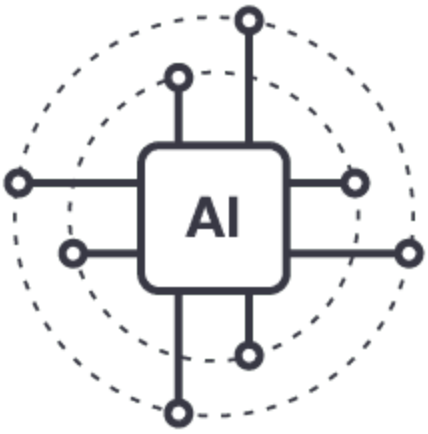


At OpenNebula, we've always believed in the power of collaboration. Over the past few months, we've actively engaged with organizations seeking **alternatives to VMware**, gathering insights from their challenges, priorities, and migration goals. We've also listened closely to feedback from our own users and tracked key market shifts to ensure that **OpenNebula 7.0 delivers the features and functionality VMware customers need most**.

The result is a release shaped by real-world demands, and designed to help you streamline your transition, **optimize your cloud infrastructure**, and regain **full control of your environment**.

Main Deployment Scenarios

OpenNebula 7.0 introduces **powerful new features and integrations** designed to support the most in-demand enterprise cloud deployment models. Whether you're modernizing your VMware infrastructure, building AI factories, or deploying hybrid multi-cloud environments—OpenNebula 7.0 has you covered.


AI

Main Disruptive Innovations

OpenNebula introduces cutting-edge capabilities developed within the **IPCEI-CIS project** and compliant with the 8ra architecture, redefining cloud management by making infrastructure more intelligent, flexible, and seamlessly distributed.

8ra CLOUD·EDGE CONTINUUM

Automated Cloud Operations

Simplify and accelerate infrastructure management with full automation across provisioning, scaling, and lifecycle operations.

Seamless Hybrid Multi-Cloud

Build and operate hybrid and multi-cloud environments with native support for workload portability and full vendor independence.

AI-Augmented Operations

Leverage AI and ML to enhance observability, automatic workload placement, and predictive decision-making across your cloud.

Distributed Infrastructure

Deploy and manage highly distributed resources as a single unified cloud—optimized for latency, sovereignty, and scalability.

Key New Features Across All Areas

OpenNebula 7.0 delivers major innovations across the full stack of cloud orchestration, management, and operations—enhancing **performance, scalability, and usability for next generation enterprise and edge cloud environments.**

Sunstone GUI

A fully modernized user interface designed with a focus on UX and clarity:

- Improved New End-user **Cloud View**
- Dynamic Tabs for enhanced flexibility Enhanced VNC Console functionality
- VM Template Profiles for simplified deployment workflows

Automation

Streamlined provisioning and hybrid cloud expansion:

- Improved **Automated Deployment** of hybrid cloud clusters
- Enhanced Hybrid Drivers for **on-prem deployment and AWS**
- New Hybrid Drivers for **Scaleway** integration

Apps & Workloads

Better support for key enterprise and AI workloads:

- Enhanced compatibility for **Windows Guest OS**.
- **ClusterAPI** (CAPONE) integration for Kubernetes.
- **OneKE Certified** for Kubernetes 1.31
- **OneFlow** support for roles using Virtual Routers.
- Improved appliances for **Ray** and **NVIDIA's Dynamo** with integration with **vLLM** and **Hugging Face**.

Capacity Management & DRS

Intelligent workload placement and resource governance:

- Cluster-wide automated & semi-automated **load balancing**.
- Generation of **migration plans**.
- AI-driven **Predictive Monitoring** & **Scheduling**.
- Customizable **migration thresholds**.
- **Cluster Quotas** for fine-grained control at edge locations.
- Custom **Quota Items** for user & group-level governance.

Storage

More flexible and enterprise-ready storage support:

- Native **NetApp iSCSI Drivers**.
- Improved **LVM backend** and **local datastore** support.
- Import **OVAs** directly into OpenNebula
- **Automatic NFS** Mounting.

Backup

Enhanced resilience and enterprise-grade data protection:

- Veeam Backup integration.
- Ceph Incremental Backups.
- Full LVM Datastore Backup support.

Networking

Robust network enhancements for performance and security:

- Transparent Proxies for VMs.
- VLAN Filtering for Linux Bridge-backed networks.

Expanded compatibility for modern infrastructure:

Enhanced resilience and enterprise-grade data protection:

- Support for NVIDIA Mediated Devices.
- Enhanced PCI Passthrough with host/cluster selection.
- Full Arm64 Support for guest OS and OpenNebula packages.

Seamless Integration into the Enterprise Ecosystem

OpenNebula is fully integrated and validated with leading enterprise platforms, ensuring smooth interoperability and high performance across your infrastructure stack. Whether you're running on-prem, at the edge, or across hybrid environments, OpenNebula connects seamlessly with the technologies that power your business.

Want to Evaluate OpenNebula?

Try OpenNebula at your own pace, allow us to walk you through a live demo, or let us respond to your questions.

Evaluate OpenNebula

Release Notes

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Need Help?

If you have **any questions** or need a closer look at OpenNebula, **let's chat**. Fill out the form, and we'll walk you through everything and schedule a **live demo**.

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