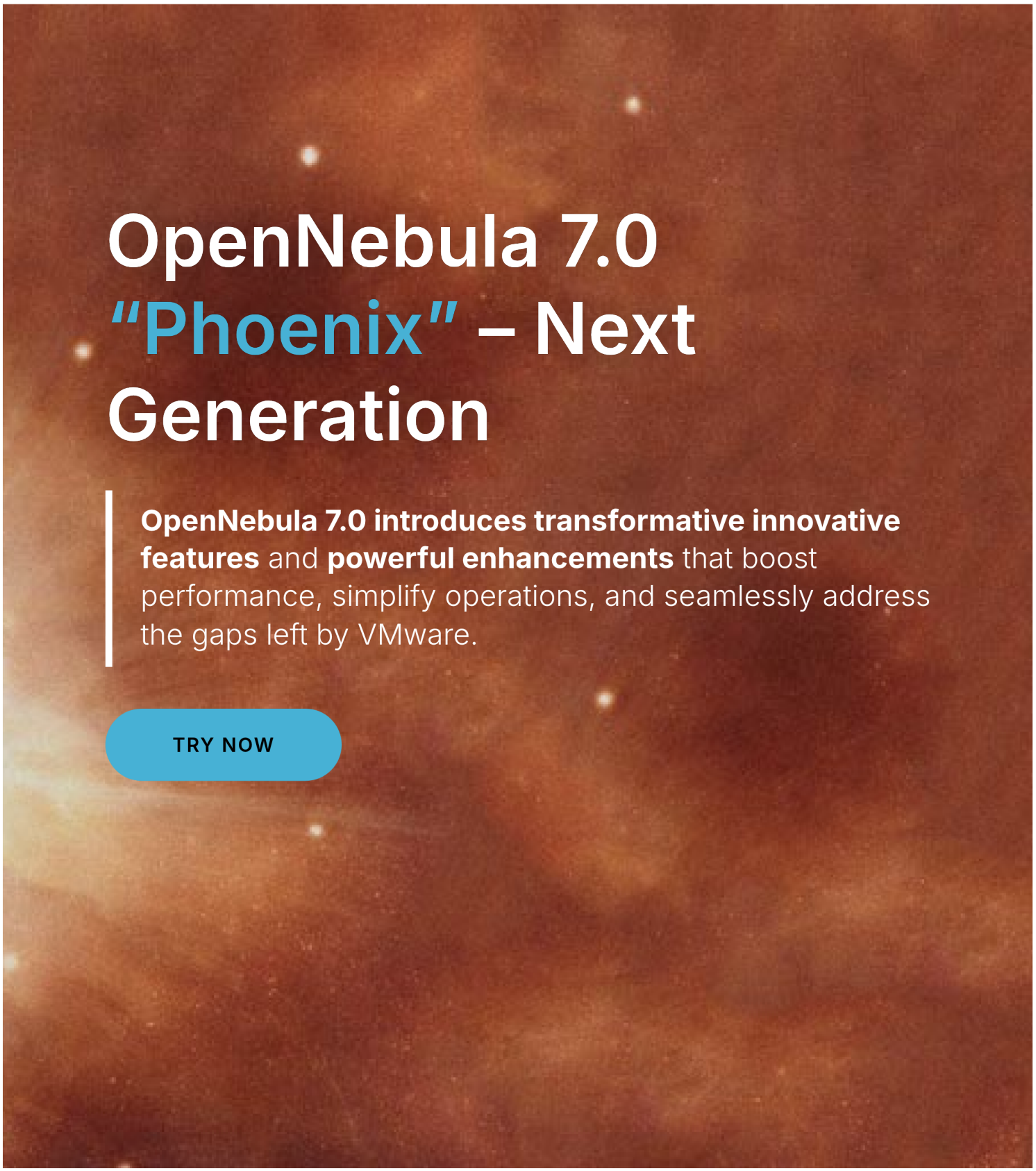
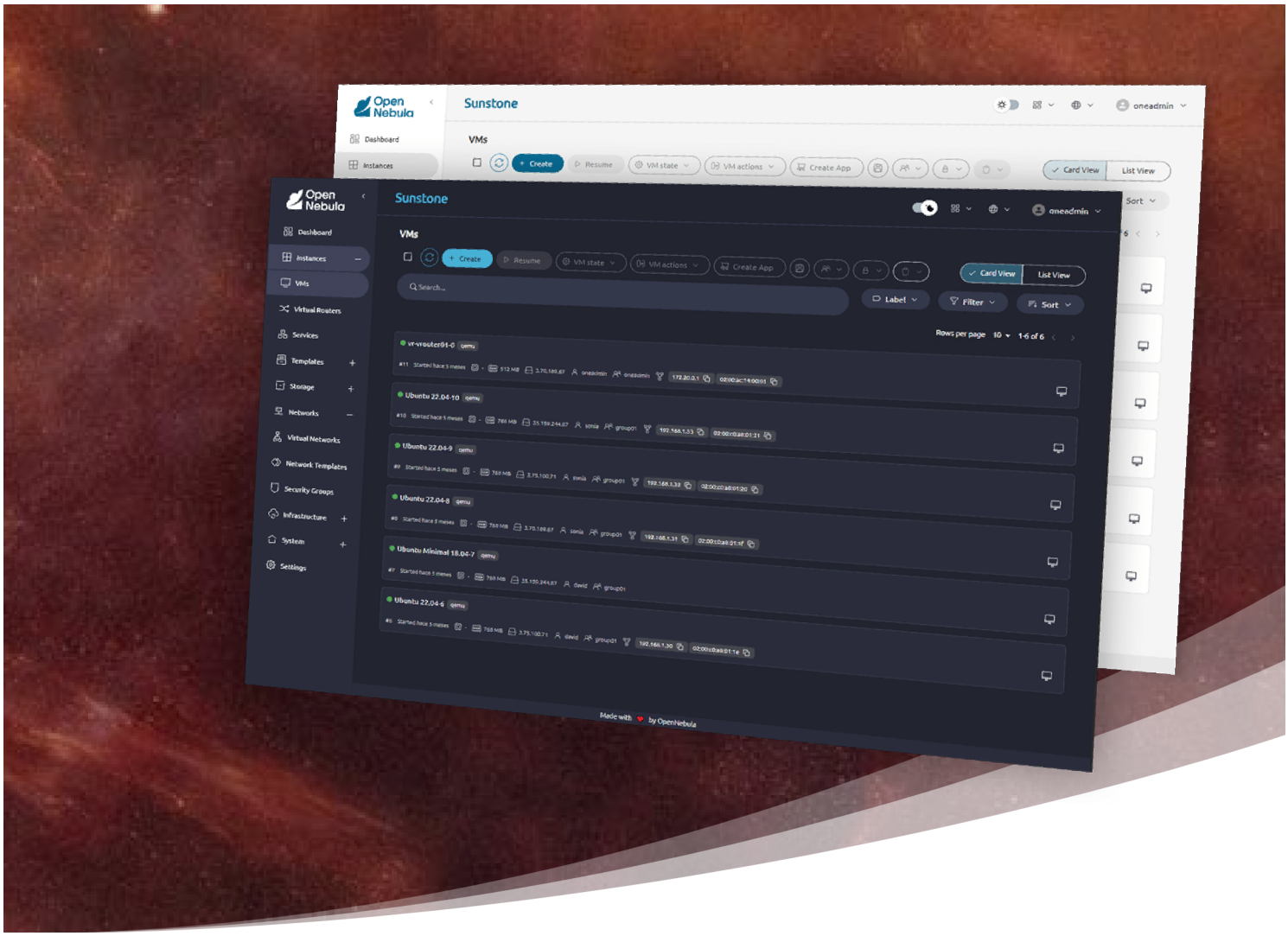

OpenNebula 7.0
"Phoenix" – Next Generation
OpenNebula 7.0 introduces transformative innovative features and powerful enhancements that boost performance, simplify operations, and seamlessly address the gaps left by VMware.
TRY NOW

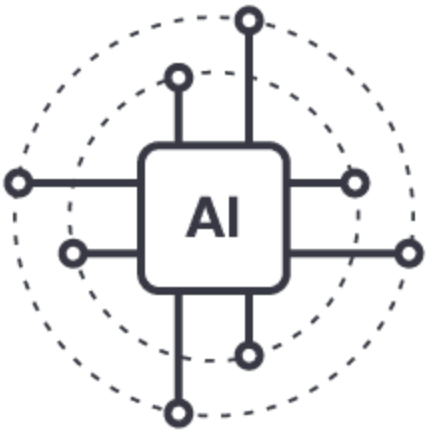


At OpenNebula, we've always believed in the power of collaboration. Over the past few months, we've actively engaged with organizations seeking **alternatives to VMware**, gathering insights from their challenges, priorities, and migration goals. We've also listened closely to feedback from our own users 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.

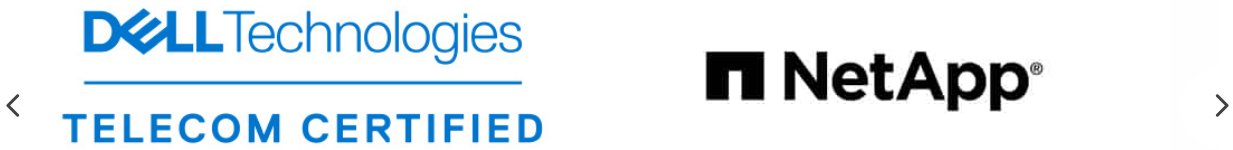
Expanded compatibility for modern infrastructure:

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

Read now >

Try OpenNebula 7.0

Download now >

Subscribe now

OpenNebula Subscription >

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**.

First Name*

Last Name*

Company Email*

Company Name*

Where did you hear about OpenNebula?*

Please Select

Please provide the details of your inquiry*

OpenNebula is committed to protecting and respecting your privacy, and we'll only use your personal information to administer your account and to provide the products and services you requested from us. From time to time, we would like to contact you about our products and services, as well as other content that may be of interest to you. If you consent to us contacting you for this purpose, please tick below to say how you would like us to contact you:

- [ ] I agree to receive monthly newsletters and other communications from OpenNebula.*

You can unsubscribe from these communications or exercise your GDPR rights at any time. For more information on our privacy practices, and how we are committed to protecting and respecting your privacy, please review our Privacy Policy.

Funded by the Spanish Ministry for Digital Transformation and Civil Service through the ONEnextgen Project (UNICO IPCEI-2023-003), and co-funded by the European Union's NextGenerationEU through the RRF.

Funded by the Spanish Ministry for Digital Transformation and Civil Service through the ONEedge5G Project (TSI-064200-2023-1) and co-funded by the European Union–NextGenerationEU through the RRF.

Join to Our Newsletter

Get timely updates on new releases, events, webinars, cool hacks, and much more!

Subscribe

OpenNebula

The Open Source Cloud & Edge Computing Platform.

COMPANY

About Us
Innovation
Partner Program
Press Releases

DOCUMENTATION

Customer Portal
Guides
Quick Start
Knowledge Base

COMMUNITY

Blog
Forum
OpenNebulaCon
TechDays

Copyright 2002-2026 © OpenNebula Systems (OpenNebula.io)
Unless otherwise stated, all content is distributed under CC BY-NC-SA 4.0