



| GUIDE

Hypervisor Operating System Embedded Subscriptions

The **OpenNebula Enterprise Subscription includes support for the hypervisor nodes** that form the underlying infrastructure for running OpenNebula. OpenNebula Systems provides expert guidance for any issue arising from the installation, configuration, and operation of the software stack required on these nodes—including the operating system with the hypervisor layer (libvirt/KVM) and networking tools (e.g., VXLAN, VLAN 802.1Q).

OpenNebula Systems supports the host operating systems only as they relate to the operation and integration of OpenNebula itself. This covers the hypervisor, storage, and networking services consumed by OpenNebula, under the assumption that these hosts are dedicated to running an OpenNebula virtualized environment. OpenNebula Systems does not provide general-purpose OS support for host machines, nor support any operating systems or applications running inside guest virtual machines.

By default, OpenNebula can run on RHEL-compatible distributions (such as Rocky Linux or AlmaLinux), Ubuntu and OpenSUSE, which do not require paid licenses. While OpenNebula supports their integration, it does not take responsibility for their management, maintenance, or updates. If a bug is identified in the Linux kernel or related packages while resolving a customer case, and no upstream fix exists, OpenNebula Systems will report it to the appropriate project, track its resolution, and provide workarounds when possible.

For customers requiring licensed or vendor-backed operating systems on hypervisor nodes, OpenNebula Systems offers **embedded Ubuntu Pro, SLES or RHEL as part of the integrated solution**. As with the standard subscription, OpenNebula Systems provides complete support for the hypervisor environment, with the additional benefit that these embedded add-ons include L3 vendor support (Canonical, SUSE or Red Hat) to ensure deeper issue resolution when needed.

The built-in operating system included in the **OpenNebula Enterprise Subscription – Embedded Editions** (Ubuntu Pro, SLES or RHEL) is provided **exclusively as an integrated component of the OpenNebula platform**. It is installed and used only on hypervisor nodes and solely for the purpose of supporting their operation within the OpenNebula environment. The embedded OS entitlement applies only to the operating system running on the physical hosts and does not extend to virtual machines. Customers are not permitted to acquire, deploy, or use the embedded operating system independently or for any purpose outside its designated role within the OpenNebula platform. No standalone access to the OS subscription is granted, as it is fully embedded and delivered as part of the integrated OpenNebula solution.

Ubuntu Pro Infra Embedded Add-on

As stated in its Release Notes, the OpenNebula software is fully certified to work on the two most recent LTS releases of Ubuntu. For customers requiring official operating system licenses and vendor-backed support, OpenNebula Systems has established a partnership with Canonical to provide **full integrated support, including L3 engineering backing from Canonical**, for the operating systems used on hypervisor nodes.

What the Add-on Includes

The **Ubuntu Pro Infra Embedded Add-on** delivers a single-vendor support experience for the complete virtualization and cloud stack, fully backed by OpenNebula Systems and with L3 escalation to Canonical. This ensures organizations can run their OpenNebula environments on a trusted, enterprise-ready Linux platform, while also **meeting regulatory and compliance requirements**. The add-on incorporates all the enterprise-grade benefits of Ubuntu Pro with Infra Support, as detailed at ubuntu.com/pricing/pro, and mostly:

- ✓ 10+ years of security maintenance for Ubuntu and open source packages from Canonical's trusted repositories (up to 12 years with Extended Security Maintenance).
- ✓ Enterprise-grade kernel patching without system reboots, enabled through Canonical Livepatch.
- ✓ Certified components for compliance, including the ability to run Linux FIPS 140-3 workloads.
- ✓ Rapid CVE response and patching, leveraging Canonical's reputation for fast mitigation of critical vulnerabilities.
- ✓ Centralized Ubuntu system management with Landscape.
- ✓ End-to-end support: OpenNebula Systems serves as the primary support channel, with L3 escalation to Canonical engineering, ensuring complete vendor accountability.

What the Add-on Excludes

Support covers the integrated OpenNebula with Ubuntu platform as a whole, not independent or unrelated third-party components. The following areas are not covered under the Ubuntu Embedded Add-on:

- ✓ Installation, or customization of any software.
- ✓ Support for third-party software not included in the certified OpenNebula and Ubuntu stack.
- ✓ Support for packages in the Ubuntu Universe repository.
- ✓ Unsupported or deprecated Ubuntu versions outside the certified LTS releases.
- ✓ Custom kernel builds or modifications beyond Canonical's published updates.
- ✓ Operating system or any End-user application-level support (e.g., databases) running inside VMs.
- ✓ Third-party storage, networking, or backup not explicitly certified under the OpenNebula ecosystem.

Red Hat Enterprise Linux Embedded Add-on

The OpenNebula software is fully certified to run on the most recent supported releases of Red Hat Enterprise Linux. For customers requiring official RHEL licenses and vendor-backed support, OpenNebula Systems offers a **fully integrated solution through its embedded partnership with Red Hat**, providing complete support for the hypervisor hosts, reinforced by L3 engineering escalation to Red Hat. This service includes RHEL subscriptions for the hypervisor nodes, bundled directly into OpenNebula's pricing model.

What the Add-on Includes

The RHEL Embedded Add-on provides a **unified, single-vendor support experience for running OpenNebula on a fully certified, enterprise Red Hat Linux platform**. OpenNebula Systems delivers integrated support with L3 escalation to Red Hat for OS-level issues. Key benefits include:

- ✓ Official Red Hat Enterprise Linux licenses for compliance and certification.
- ✓ Guaranteed long-term security updates (up to 10 years).
- ✓ Access to Red Hat's enterprise support and engineering teams (L3).
- ✓ Certified kernel, drivers, networking, and storage stacks.
- ✓ Predictable, stable lifecycle management for mission-critical infrastructure.
- ✓ Compatibility with Red Hat-validated hardware and ecosystem integrations.

What the Add-on Excludes

The RHEL Embedded Add-on covers only the integrated OpenNebula and RHEL stack and **does not extend to unrelated or third-party software**. Specifically, it does not include:

- ✓ Installation or customization of unrelated third-party software.
- ✓ Support for packages outside the certified RHEL repositories.
- ✓ Outdated, non-certified, or end-of-life RHEL versions.
- ✓ Custom kernels, kernel module modifications, or unsupported tuning.
- ✓ OS or application-level support for software running inside guest VMs.
- ✓ Third-party storage, networking, or backup systems not certified for OpenNebula.
- ✓ Workloads or software on nodes not enrolled in the RHEL Embedded Add-on

Red Hat Enterprise Linux Embedded Add-on

OpenNebula is certified to run on supported releases of **SUSE Linux Enterprise Server**. For customers requiring official SLES licenses and vendor-backed enterprise support, OpenNebula Systems offers a fully integrated solution through its embedded SUSE offering, providing complete support for the hypervisor hosts, reinforced by escalation to SUSE for operating-system-level issues. This service includes SUSE Linux Enterprise Server subscriptions for the hypervisor nodes, bundled directly into OpenNebula's pricing model.

What the Add-on Includes

The SLES Embedded Add-on provides a **unified, single-vendor support experience for running OpenNebula on a certified, enterprise-grade SUSE Linux platform**. OpenNebula Systems delivers integrated support for the OpenNebula and SLES infrastructure stack, with escalation to SUSE for OS-level issues when required. Key benefits include:

- ✓ Official SUSE Linux Enterprise Server subscriptions for compliance and certification.
- ✓ Access to SUSE enterprise updates, maintenance, and security patches.
- ✓ Long-term lifecycle support, with SUSE products supported for up to 13 years depending on the product version and support program.
- ✓ Enterprise-grade kernel, drivers, networking, virtualization, and storage components.
- ✓ Certified KVM-based virtualization support for SUSE Linux Enterprise Server hosts.
- ✓ Predictable lifecycle management for mission-critical infrastructure.
- ✓ Compatibility with SUSE-certified hardware and partner ecosystem integrations.

What the Add-on Excludes

The SLES Embedded Add-on covers only the integrated OpenNebula and SUSE Linux Enterprise Server stack and **does not extend to unrelated or third-party software**. Specifically, it does not include:

- ✓ Installation or customization of unrelated third-party software.
- ✓ Support for packages outside the certified SUSE repositories.
- ✓ Outdated, non-certified, or end-of-life SLES versions.
- ✓ Custom kernels, kernel module modifications, or unsupported operating-system tuning.
- ✓ OS or application-level support for software running inside guest VMs.
- ✓ Third-party storage, networking, or backup systems not certified for OpenNebula.
- ✓ Workloads or software running on nodes not enrolled in the SLES Embedded Add-on.

Ubuntu Pro, SLES and RHEL Embedded Editions Pricing

To run OpenNebula with full enterprise-grade operating system support on hypervisor nodes, customers first need the **OpenNebula Enterprise Subscription**, which is always required, licensed per host, and includes support for the integration of the host operating system, hypervisor stack, storage, and networking services used by OpenNebula.

Customers who require a fully licensed, vendor-supported operating system on their hypervisor nodes—such as Ubuntu Pro, SUSE Linux Enterprise Server or Red Hat Enterprise Linux—can then add the corresponding **OS Embedded Add-on**. Ubuntu Pro is licensed per host, while SUSE Linux Enterprise Server and Red Hat Enterprise Linux follow their standard per 2-socket licensing model. These add-ons provide official OS licenses, hardened and certified images, extended security maintenance, and L3 vendor engineering escalation delivered through OpenNebula Systems.

Together, the Enterprise Subscription and the OS Embedded Add-ons form the **Enterprise Subscription – Embedded Editions**, delivering complete, unified, and enterprise-grade virtualization and cloud management environments, while ensuring compliance, long-term security, and full vendor accountability for the management and the hypervisor layer.



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Reference: Hypervisor Operating System Embedded Subscriptions - Rev20260525