



# Rackspace Private Cloud Powered by OpenStack

Gain the performance, security and control of an enterprise-grade open-source public cloud delivered as a service.

Rackspace Private Cloud powered by OpenStack® delivers private cloud as a service, making it faster, easier and more cost efficient to deploy dedicated cloud resources built on open source technologies, while eliminating the complexity and operational challenges associated with OpenStack.

## Experts Dedicated to Your Success

Rackspace has successfully scaled OpenStack to hundreds of thousands of nodes and managed OpenStack clouds for some of the largest companies in the world. Having invented OpenStack with NASA in 2010, and with over 1 billion managed server hours, nobody has more experience with OpenStack than Rackspace.

## Key Features

### Built-in automation

- Deployment and configuration management automated with Ansible
- Heat-based solution templates

Production-ready stacks deployable in minutes

### Enterprise-grade architecture

- 99.99% OpenStack Uptime Guarantee
- Linux containers for independent scaling and seamless upgrades
- Designed to scale to thousands of nodes
- High availability with a professional-grade, four-server control plane
- Includes a clustered database and messaging service

### Security and logging

- Secure, dedicated environment
- Includes two physical firewalls and audit logs
- Allows use of existing open LDAP service to authenticate users

## Key Benefits

### A true open source solution

Rackspace Private Cloud powered by OpenStack uses only open source software and offers open source infrastructure components.

- Infrastructure design based on Open Compute Project (OCP) specifications, purpose-built for running an OpenStack cloud.
- Proactively updated with the latest available open-source distributions of Ubuntu Linux and KVM for the operating system and virtualization layers.
- Management layer using upstream OpenStack, deployed according to our prescribed and tested configurations using the OpenStack Ansible Deployment playbooks — without any proprietary code or wrappers.

## About Rackspace

Rackspace is your trusted partner across cloud, applications, security, data and infrastructure.

- A leader in the 2019 Gartner Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide
- 3,000+ cloud experts
- Hosting provider for more than half of the Fortune 100
- 20+ years of hosting experience
- Customers in 150+ countries

## Compute

All Ubuntu 16.04-compatible compute, including Cisco, Dell, IBM, HP and Open Compute based designed systems.

## Networking

OpenStack Networking (Neutron) with the ML2 plug-in and Linux Bridge agents support the following:

- Flat and VLAN provider networks
- Flat, VLAN and VXLAN overlay (tenant) networks
- L3 agents for routing, NAT and floating IP addresses

## Storage

- Object storage: Ceph Object Gateway
- Block storage: OpenStack Cinder driver support for Ceph RBD, Cinder/LVM, EMC VNX2, NetApp FAS, and NetApp SolidFire

## Fanatical Experience™

Experts on your side, doing what it takes to get the job done right. From first consultation to daily operations, Rackspace combines the power of always-on service with best-in-class tools and automation to deliver technology when and how you need it.

## Reduced IT costs

To help you to reduce acquisition and ongoing operational costs, Rackspace will provide a private cloud solution designed using open standards, built on an open source software stack and managed by OpenStack experts.

- Minimize software licensing costs by using freely available open-source distributions of Ubuntu Linux, KVM and upstream OpenStack.
- Reduce hardware acquisition and operational costs by choosing from the broad set of Rackspace infrastructure options, including infrastructure designs based on the OCP specifications.
- Save time and eliminate the operational expenses of finding, training and retaining hard-to-find OpenStack experts by relying on an experienced team of OpenStack specialists to manage your private cloud.

## Faster time to value

Get up and running quickly by leveraging integrated infrastructure, a prescriptive deployment, application-level automation and Rackspace OpenStack expertise.

- Quick setup and deployment leveraging Rackspace open standards design — a pre-integrated system of network, storage and compute designed to the OCP specifications and purpose built for OpenStack powered clouds.
- Prescriptive deployment that leverages OpenStack Ansible playbooks to help reduce deployment times, designed and tested to provide the stability, scalability and high availability you need to support your cloud-ready enterprise production workloads.
- Deploy production-ready application stacks in minutes with templates for several widely used open source applications including Magento, Drupal and MongoDB.

## Take the Next Step

Let's talk about how Rackspace can help you deploy a reliable, scalable OpenStack Private Cloud.

Learn more: [www.rackspace.com/en-us/openstack/private](http://www.rackspace.com/en-us/openstack/private)  
Call: 1-800-961-2888

## Rackspace Private Cloud Powered by OpenStack Architecture

