Rackspace OpenStack Private Cloud

Rackspace delivers OpenStack Private Cloud-as-a-Service in any data center.

Rackspace® OpenStack® Private Cloud simplifies cloud adoption by delivering a fully managed OpenStack private cloud with integrated software and hardware to data centers around the world. Rackspace OpenStack Private Cloud enables IT organizations to stop managing their own infrastructure, lower costs, rapidly respond to demand in different geographies, and easily solve data sovereignty and compliance requirements.

Experts Dedicated to Your Success

Rackspace experts help eliminate complexity and alleviate skill shortages by delivering OpenStack as a managed service to data centers around the world. Rackspace gives you the power of OpenStack without the pain of running it on your own.

Customers can deploy a Rackspace-designed, purpose-built OpenStack private cloud in any data center, with an integrated, fully tested modular rack of hardware, software and services. Customers choose either a Rackspace or Red Hat® OpenStack configuration for their private cloud, and Rackspace experts manage its end-to-end deployment and operations.

From the floor tiles all the way up the service stack, Rackspace fully manages your OpenStack private cloud — including the underlying OpenStack software, hardware and networking. Customers receive industry-leading service level agreements, including a 99.99 percent OpenStack API uptime guarantee, combined with support from more than 1,000 OpenStack experts.

Key Benefits

Rackspace experts operate your OpenStack private cloud with the following high-performance benefits:

Lower Costs: Rackspace saves customers $258,000 annually (per 20 servers) in internal operating costs and can reduce your platform costs by up to 60 percent.[*] It also allows you to shift IT expenses from capex to opex, allowing you to reinvest those dollars into your business.

Consume OpenStack-as-a-Service in Your Location of Choice:
Rackspace OpenStack Private Cloud can be deployed in data centers around the world — a Rackspace data center, your own data center or a third-party colocation facility. This allows you to meet demand in multiple geographies and easily comply with data sovereignty and security requirements.

Eliminate the Burden of Managing Your Own Infrastructure:
Rackspace OpenStack Private Cloud helps eliminate the high cost, risk and operational burden of doing it yourself. Rackspace manages the underlying OpenStack software, hardware and networking, so you can focus on your core business.

* According to the white paper, "Proven ROI: OpenStack Private Cloud."

About Rackspace

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

- Named a leader in the 2017 Forrester Hosted Private Cloud Wave
- A leader in the 2019 Gartner Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide
- Hosting provider for more than half of the Fortune 100
- 20+ years of hosting experience
- Customers in 150+ countries
- Industry-leading service level agreements
- OpenStack cloud experts available 24x7x365
- Over 1 billion server hours operating production-ready OpenStack clouds at scale
- Co-founder of OpenStack in 2010 with NASA

"The option to deploy production-ready OpenStack private clouds through an as-a-service model can improve our speed to market and reduce acquisition costs."

Robert Bond :: SVP of Product Engineering, Encompass Digital Media

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.
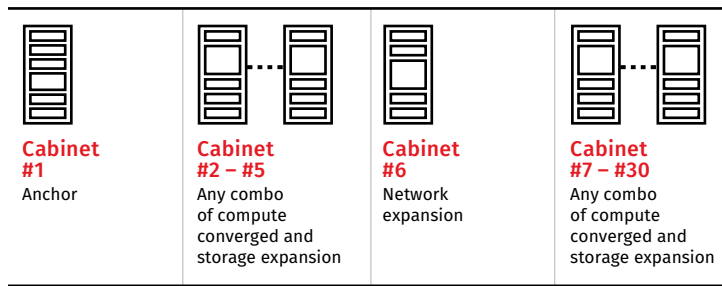
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Services Delivered Your Way

Rackspace delivers exceptional OpenStack service and support built on these strengths:

- Proactive monitoring and maintenance of the health of your cloud with installation, patching, upgrades, troubleshooting and capacity planning.
- Project manager to guide you in meeting all of your deployment and installation needs.
- Dedicated account manager serving as your "go to" resource, and helping continually update and improve your environment as your workload needs evolve.
- Professional services to help accelerate your cloud adoption and modernize, automate and optimize your environment.
- Comprehensive training and certification program to help you get the most out of your OpenStack cloud.

Flexible Scaling Solution

Rackspace can "deliver OpenStack everywhere" in a flexible, scalable manner. Each cloud starts with an anchor cabinet — a converged networking, compute and storage solution in one rack. This cabinet serves as a stand-alone private cloud and the foundation for expanding and scaling your private cloud. It will support up to four additional expansion cabinets, in any combination of compute, storage and converged options. Adding the networking expansion cabinet will allow you to scale to 30 total cabinets.

Cabinet #1
Anchor

Cabinet #2 – #5
Any combo of compute converged and storage expansion

Cabinet #6
Network expansion

Cabinet #7 – #30
Any combo of compute converged and storage expansion

This solution utilizes common servers in each cabinet. For example, the same compute servers will be used for the anchor, compute expansion, converged expansion and network expansion cabinets. The SATA storage, controller, HAProxy, utility and logging servers will be used similarly. Here are the standardized specifications for each server type:

	Compute Servers	SATA Storage Server	Controller, HAProxy & Utility Servers	Logging Server
Server	**1U**	**2U**	**1U**	**1U**
CPU	2 x Xeon Gold 6130 2 x 16 cores	2 x Xeon Silver 4110 2 x 8 cores	2 x Xeon Silver 4110 2 x 8 cores	2 x Xeon Silver 4110 2 x 8 cores
RAM	768GB	192GB	192GB	192GB
Disk 1	2 x 960GB SSD (OS)	2 x960GB SSD (OS) 2 x 960 GB SSD (Journal)	2 x 960GB SSD (OS)	2 x 960GB SSD (OS)
Disk 2	6 x 960GB SSD (Local Disk option)	10 x 8TB SATA (Data)	N/A	4 x 960GB SSD (Data)
NIC	1 x dual port 10G (2 x 10G ports total)	2 x dual port 10G (4 x 10G ports total)	2 x dual port 10G (4 x 10G ports total)	1 x dual port 10G (2 x 10G ports total)

Technical Specifications

	Anchor	Compute	Converged	Storage	Network
Control/Logging/ HAProxy/ Utility Servers	8	—	—	—	—
Compute Servers	7	20	16	—	8
Storage Servers	5	—	5	22	5
Compute vCPU (2:1)	7	20	16	—	8
Compute RAM (GB)	5	—	5	22	5
Ceph SDS SATA Storage (Usable) (TB)	105	—	105	464	105

Anchor Cabinet — Expansion Cabinets

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