Version 10.0 Software & Reference Architecture – Juno Release

The Rackspace Private Cloud software and reference architecture deliver a stable and scalable production-ready private cloud powered by OpenStack. It is designed and built by the experts who co-founded OpenStack and run one of the world's largest OpenStack-powered clouds. The Rackspace Private Cloud software is based on the Juno release of OpenStack and is built without proprietary hooks ensuring you avoid the risk of vendor lock-in.

**Advantages of Rackspace Private Cloud Include:**

**Automation** – Unlocking the full power of your cloud requires automation. Rackspace Private Cloud automates your cloud deployment and configuration management using Ansible software and provides Heat-based solution templates that enable you to deploy production-ready application stacks in minutes.

**Enterprise-Grade Architecture** – Includes an industry-leading 99.99% OpenStack uptime guarantee, is designed to scale over 200 nodes and delivers high availability using a professional-grade, four-server control plane that includes a clustered database and messaging service. It uses Linux containers for service deployment giving you the flexibility to distribute and independently scale services based on specific workload needs and perform in-place upgrades from one release to the next.

**Security & Logging** – Provides a secure, dedicated environment that includes two physical firewalls and audit logs which can help you with compliance reporting. It also enables you to use your existing Open LDAP service to authenticate users ensuring only those who are authorized can access your environment.

**Rackspace Private Cloud 10.0 Software**

Rackspace Private Cloud 10.0 Software uses Ansible software to automate your deployment and configuration management and includes the following OpenStack services*:

- **Compute (Nova)**
- **Dashboard (Horizon)**
- **Object storage (Swift)**
- **Block storage (Cinder)**
- **Networking (Neutron)**
- **Image service (Glance)**
- **Identity service (Keystone)**
- **Orchestration (Heat)**

*Any other OpenStack project, extension, or configuration not explicitly listed above is not included in the Rackspace Private Cloud Software.

For more information or to chat with a specialist:

1-844-205-7765 or www.rackspace.com/cloud/private/openstack
Rackspace Private Cloud Reference Architecture

The Rackspace Private Cloud reference architecture is a recommended set of software and infrastructure components designed to provide the scalability, stability and high availability you need to support enterprise production workloads. Additionally, every Rackspace Private Cloud customer has access to our team of architecture advisors who provide workload-specific guidance for planning, designing and architecting a private cloud environment to help meet your unique needs.

**Reference Architecture**

The Rackspace Private Cloud Reference Architecture supports the following software and infrastructure components:

**Host Operating System:** Ubuntu Server 14.04 LTS

**Hypervisor:** KVM

**Compute:** All Ubuntu 14.04 compatible compute including Cisco, Dell, IBM, HP and Open Compute Project. For a complete list of certified hardware go to [www.ubuntu.com/certification/server](http://www.ubuntu.com/certification/server)

**Storage:**
- OpenStack Object storage (Swift)
- OpenStack Block storage (Cinder) drivers for EMC, NetApp and Cinder hosts

**Networking:** Neutron with the ML2 plugin and Linux Bridge agents support the following:
  1. Flat and VLAN provider networks
  2. Flat, VLAN and VXLAN overlay (tenant) networks
  3. L3 agents for routing, NAT and floating IP addresses

**Images:** We support the Glance service and its ability to upload an image in any of the following formats:
- Raw
- Machine (kernel/ramdisk outside of image, a.k.a. AMI)
- VHD (Hyper-V)
- VDI (VirtualBox)
- qcow2 (QEMU/KVM)
- VMDK (VMware)
- OVF (VMware, others)

**All Backed by Fanatical Support®**

Rackspace Private Cloud is backed with the results-obsessed service that we call Fanatical Support. Our exceptional service means we're in it with you every step of the way and includes:

- A dedicated account manager and dedicated OpenStack engineer** who know the specifics of your private cloud environment
- A dedicated team of OpenStack experts available 24x7x365
- Proactively monitoring and maintaining the health of your cloud 24x7x365
- Industry-leading 99.99% OpenStack API uptime guarantee
- 15-minute live response time guarantee to any emergency ticket with Core support
- 100% network uptime guarantee and one-hour hardware replacement guarantee at no cost when hosted in a Rackspace data center

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