RDO

Making OPENSTACK Rock

The modular architecture of OpenStack enables a choice of options for storage, network, and compute back-ends. It also supports multiple message queues, databases, and identity services.

NETWORK

Open Daylight

Software defined network controller with intelligent flow control and routing.

Open vSwitch

The ubiquitous virtual network bridge used on most OpenStack deployments.

COMPUTE

Libvirt

Configuration of network, storage and compute resources on compute hosts.

KVM & QEMU

Official hypervisor in the Linux kernel combined with user-space x86 emulator providing near-native performance.

IDENTITY

FreeIPA

Shared identity and role-based authentication for OpenStack and other applications.

STORAGE

Ceph & Gluster

Scalable, software-defined storage for cloud and enterprise environments.

In each of these areas, Red Hat is working hard to ensure that the underlying back-ends integrate well with OpenStack, and provide the level of functionality that OpenStack users need.