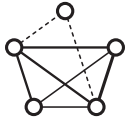


RED HAT HYPERCONVERGED INFRASTRUCTURE FOR CLOUD

DATASHEET



Red Hat Hyperconverged Infrastructure for Cloud combines Red Hat OpenStack Platform and Red Hat Ceph Storage into a single, prepackaged software offering for hyperconverged telecommunications environments.

BENEFITS

- Consolidates workloads
- Reduces infrastructure costs
- Simplifies purchasing
- Increases efficiency
- Streamlines management

HYPERCONVERGED INFRASTRUCTURE FOR TELECOMMUNICATIONS

Hyperconverged infrastructure is becoming increasingly common for private cloud and network functions virtualization (NFV) infrastructure core and edge workloads. These platforms offer co-located, software-defined compute and storage resources, as well as a unified management interface, all running on economical, industry-standard hardware. They allow communications service providers (CSPs) to consolidate workloads onto a smaller hardware footprint while improving reliability, manageability, and efficiency. A smaller footprint allows CSPs to move power to the edge of their networks more easily to meet increasing and changing demand for services.

RED HAT HYPERCONVERGED INFRASTRUCTURE FOR CLOUD

Red Hat® Hyperconverged Infrastructure for Cloud combines Red Hat OpenStack® Platform and Red Hat Ceph® Storage into a single offering with a common life cycle and support.

- **Red Hat OpenStack Platform.** A highly scalable Infrastructure-as-a-Service (IaaS) product that delivers an open, flexible, and integrated private cloud foundation—optimized for, and based on, Red Hat Enterprise Linux®.
- **Red Hat Ceph Storage.** A massively scalable, hardware-independent, programmable platform with unified support for block, object, and file storage. It is designed for modern workloads like OpenStack-based cloud infrastructure.

Both Red Hat OpenStack Platform compute and Red Hat Ceph Storage functions are run on the same host, enabling dramatic consolidation and efficiency gains. Ideal NFV use cases for Red Hat Hyperconverged Infrastructure for Cloud include:

- Core datacenters
- Central office datacenters
- Edge and remote point of presence (POP) environments

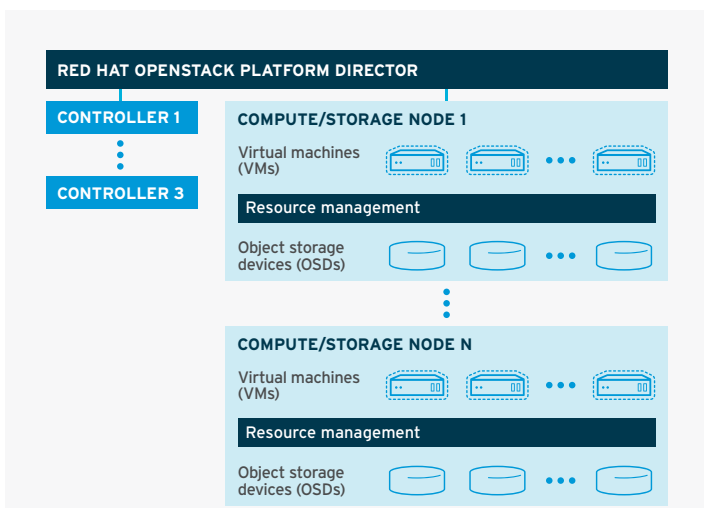


Figure 1. Red Hat Hyperconverged Infrastructure for Cloud architecture



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FEATURES AND BENEFITS

CAPABILITY	CUSTOMER BENEFIT
Reduced deployment footprint	Consolidation of compute and storage functions reduces the overall number of servers needed for a given workload, increasing efficiency and cutting costs. It also decreases the minimum cluster size to allow cost-efficient initial deployments.
No single point of failure	Clustered deployment of compute and storage resources provides increased reliability and resiliency.
Single orchestration manager	Red Hat OpenStack Platform director orchestrates all resources in the hyperconverged infrastructure for increased visibility and streamlined operations.
Advanced compute and memory management	Non-uniform memory access (NUMA) and Kernel-based Virtual Machine (KVM) memory reservation provide consistent performance during cluster stage changes.
High scalability	Scalability to 30 nodes supports larger environments.
Container-based deployment model	Containerization speeds setup, helps deliver predictable and reliable performance, and enables infrastructure savings.
Complete OpenStack service support	Full support for OpenStack Nova, Cinder, Glance, and S3/Swift and tight integration with Red Hat Ceph Storage enable a wide variety of deployment configurations.
Single software package	A unified offering with aligned component life cycles streamlines purchasing and support. Component integration delivers use case-specific performance optimizations and quality engineering testing.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



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