RED HAT CLOUD INFRASTRUCTURE

DATASHEET

AT A GLANCE

- Manages your entire infrastructure from a single operational view
- Provides infrastructure as your needs grow—from traditional applications to private cloud, hybrid cloud, and public cloud
- Meets private cloud use cases based on datacenter virtualization, traditional workloads, and hybrid deployment models
- Migrates workloads and capacity dynamically
- Provides an open source solution with an active community of contributors
- Offers choice and interoperability with no proprietary vendor lock-in
- Provides a public cloud approach, thereby eliminating the need for "shadow IT"

OVERVIEW

Red Hat® Cloud Infrastructure enables you to build and manage a private Infrastructure-as-a-Service (IaaS) cloud based on datacenter virtualization and management technologies for traditional workloads. It also provides an on-ramp to a highly scalable, public-cloud-like infrastructure based on Red Hat® OpenStack®. With Red Hat Cloud Infrastructure, you can implement an integrated infrastructure to increase your IT department's value and improve manageability.

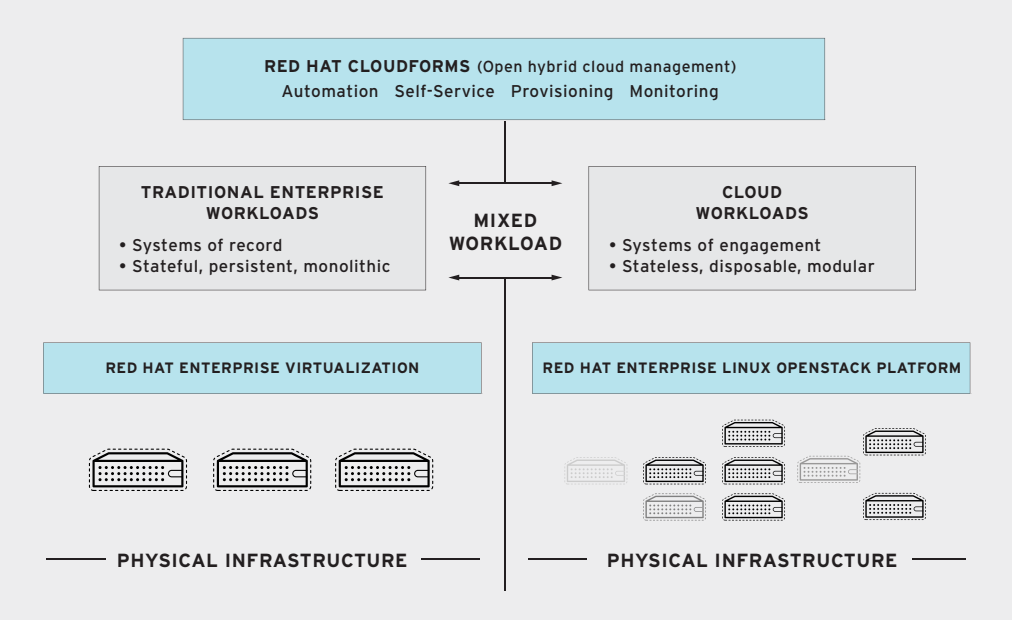
Built upon the trusted and enterprise-hardened Red Hat Enterprise Linux® platform, Red Hat Cloud Infrastructure helps you implement an open private cloud to deploy and efficiently manage traditional enterprise workloads and the new class of cloud-architected workloads.

Red Hat Cloud Infrastructure is a single-subscription offering that bundles and integrates the following products:

Red Hat Enterprise Virtualization: A complete datacenter virtualization product for Linux and Windows workloads that enables you to build an agile, secure, and highly scalable virtualization foundation with the features needed for traditional enterprise application workloads.

Red Hat CloudForms: An open hybrid cloud management solution that provides visibility and control over existing heterogeneous virtual infrastructures and lets you deploy, monitor, and manage cloud services across Red Hat Enterprise Virtualization, VMware vSphere, and other virtualization solutions, hypervisors, and platforms.

Red Hat Enterprise Linux OpenStack Platform: A massively scalable Infrastructure-as-a-Service (IaaS) product that delivers an open, flexible, and enterprise-ready private cloud foundation of OpenStack optimized for and integrated with Red Hat Enterprise Linux.



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AT A GLANCE

- Includes top virtualization benchmarks for performance and scalability
- Includes enterprise support options
- Includes Red Hat Enterprise Linux OpenStack Platform as a deployment option

OPEN PRIVATE CLOUD NOW, OPENSTACK TOMORROW

Red Hat Cloud Infrastructure supports your IT organization as it evolves. It provides you with infrastructure options suitable for today's traditional applications, as well as those suitable for future cloud application styles. With Red Hat Cloud Infrastructure, you can move to new application architectures on your terms: at your pace, with your IT policies, and under your control.

Red Hat CloudForms complements your existing datacenter virtualization technologies and other IT investments, with the flexibility to expand to public or hybrid cloud use cases by adding CloudForms capacity as needed (purchased separately). And you can manage other IT investments from the CloudForms centralized administration console, which provides unified management of the entire infrastructure.

Red Hat Cloud Infrastructure provides an integration of Red Hat Enterprise Virtualization and Red Hat CloudForms. This integration provides deep and analytic insight into capacity and usage, policy-based workload, and resource management, automation, and orchestration, unifying life cycle management for multiple hypervisor and cloud technologies. This managed virtualization solution adds value to your existing virtualization investments, provides a higher level of manageability and services to your internal customers, and uses the power of open technologies to accelerate your virtualization adoption toward a private, cloud-ready infrastructure.

Red Hat Cloud Infrastructure also provides a clear path to enable OpenStack in your environment when you're ready to move your organization from a traditional datacenter virtualization model to a cloud-enabled workloads model. You can use CloudForms to transform the management of your IT infrastructures, enabling an IT-as-a-Service operating model that accelerates service delivery and maximizes your resource investments.

In future versions, Red Hat will bring the features and functionality of Red Hat Enterprise Virtualization to Red Hat Enterprise Linux OpenStack Platform. Red Hat CloudForms will also begin to integrate with Red Hat OpenStack to provide enhanced monitoring and orchestration technologies.

By using Red Hat Enterprise Linux OpenStack Platform, you'll be using OpenStack—the largest and fastest growing open source cloud infrastructure project—while maintaining the security, stability, and enterprise-readiness of a platform built on Red Hat Enterprise Linux. As a Red Hat Enterprise Linux OpenStack Platform customer, your organization is represented in the OpenStack community by Red Hat, where we are currently a top-corporate contributor and provide a major presence in all of OpenStack subprojects.

FEATURE CATEGORIES BY USE CASE	CAPABILITIES
Cost-effective managed virtualization	
Open	• Offers choice and interoperability with no proprietary lock-in
Leading performance	• Offers top virtualization benchmarks for performance and scalability (in SPECvirt_sc2010 and TPC-C)
Hybrid	• Unifies life cycle management for multiple hypervisor and cloud technologies through a centralized administration console
Foundation for an open, private cloud	
Standards	• Meets private cloud use cases based on datacenter virtualization, traditional workloads, and hybrid deployment models • Accelerates your private cloud environment's capacity using open virtualization technologies at a much lower cost, unifying with your existing proprietary virtualization capacity
Capacity	• Allows for deployment of an OpenStack, standards-based private cloud, built on enterprise-grade Red Hat Enterprise Linux OpenStack Platform
Support	• Provides enterprise support from Red Hat for Red Hat Enterprise Linux OpenStack Platform
Foundation for an open hybrid cloud	
Hybrid	• Manages hybrid capabilities across vendors and between a public and private cloud
Foundation for a private cloud in the future	
Support	• Provides support and the ability to test OpenStack for future deployment

TECHNICAL SPECIFICATIONS

System requirements	• Red Hat Enterprise Virtualization Manager: Recommended 1-2 quad core x86_64 processors, 16 GB RAM, 50 GB disk, 1 Gbps Ethernet NIC • Red Hat Enterprise Virtualization Hypervisor: 1 CPU with Intel® 64 or AMD64 CPU extensions, and AMD-VTM or Intel VT® hardware virtualization extensions, 2 GB RAM, 10 GB local disk storage, 1 GB Ethernet NIC • CloudForms 2.0: Delivered as a virtual appliance in Open Virtual Format (OVF) for either Red Hat Enterprise Virtualization 3.0 or later, or VMware vSphere • Red Hat OpenStack: 64-bit x86 processor with support for the Intel® 64 or AMD64 CPU extensions, and the AMD-V™ or Intel VT® hardware virtualization extensions enabled. 2 GB RAM, 50 GB available disk space, 2 X 1 Gbps Network Interface cards (or 1 x 1 Gbps for single node deployments)

ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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