



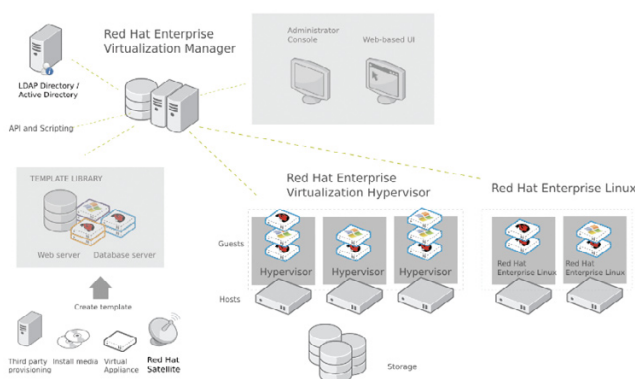
RED HAT ENTERPRISE VIRTUALIZATION FOR SERVERS: DATASHEET

RED HAT ENTERPRISE VIRTUALIZATION FOR SERVERS

Red Hat® Enterprise Virtualization for Servers is an end-to-end virtualization solution that is designed to enable pervasive datacenter virtualization, and unlock unprecedented capital and operational efficiency. Red Hat Enterprise Virtualization for Servers builds upon the Red Hat Enterprise Linux® platform that is trusted by thousands of organizations on millions of systems around the world for their most mission-critical workloads. It consists of the following two components:

- **Red Hat Enterprise Virtualization Manager for Servers:** A feature-rich server virtualization management system that provides advanced capabilities for hosts and guests, including high availability, live migration, storage management, system scheduler, and more.
- **Red Hat Enterprise Virtualization Hypervisor:** A modern hypervisor based on Kernel-based Virtual Machine (KVM) virtual technology which can be deployed either as a standalone bare metal hypervisor (included with Red Hat Enterprise Virtualization for Servers), or as Red Hat Enterprise Linux 5.4 and later (purchased separately) installed as a hypervisor host.

RED HAT ENTERPRISE VIRTUALIZATION



FEATURES AND BENEFITS

Robust virtualization management features

- **Live migration:** Dynamically move virtual machines between hosts with no service interruption.
- **High availability:** Virtual machines automatically restart on another host in the case of host failure.
- **System scheduler:** Balance workloads in the datacenter by dynamically live-migrating virtual machines based on resource usage and policy.
- **Power saver:** During off-peak hours, concentrate virtual machines on fewer physical hosts to allow some hosts to be powered down to achieve power savings.
- **Maintenance manager:** Perform maintenance on hosts without guest downtime.
- **Image manager:** Create new virtual machines based on templates.
- **Thin provisioning:** Allows creation of desktops and servers based on templates by only storing differences between new instances and the base template, saving storage space.

Industry-leading performance with KVM technology¹

- Over 400 active workload VMs on a 32 core, 1 TB server
- Messaging performance of one million messages per second on a single server and low latency
- Up to 140 percent of bare metal performance with multiple VMs on a single server compared to a single bare metal operating system
- Up to 95 percent of bare metal performance for real world enterprise applications

¹ See library under <http://www.redhat.com/rhev/server> for the latest Red Hat Enterprise Virtualization for Servers performance whitepapers and datasheets.



Scalability

- **Host:** Up to 256 cores, 1 TB RAM
- **Guest:** Up to 16vCPU, 64 GB RAM
- **Clusters:** Over 50 hosts per cluster
- Predictable, scalable performance for enterprise workloads from SAP, Oracle, Microsoft, Apache, etc.

Robust, proven security model

- Built on proven, stable, and secure Red Hat Enterprise Linux. Including SELinux security infrastructure developed in conjunction with US National Security Agency (NSA).

Advanced features

- Memory page sharing, advanced scheduling capabilities, and more, inherited from the Red Hat Enterprise Linux kernel

Guest operating system support

- Paravirtualized network and block drivers for highest performance
- Red Hat Enterprise Linux Guests (32-bit and 64-bit): Red Hat Enterprise Linux 3, 4 and 5
- Microsoft® Windows® Guests (32-bit and 64-bit): Windows 2003 server, Windows 2008 server, Windows XP. SVVP, and WHQL certified

Hardware support

- All 64-bit x86 servers that support Intel VT or AMD-V technology and are certified for Red Hat Enterprise Linux 5 are certified for Red Hat Enterprise Virtualization.
- Red Hat Enterprise Virtualization supports NAS/NFS, Fibre Channel, and iSCSI storage topologies.

PRICING AND PACKAGING

Red Hat Enterprise Virtualization for Servers is available as a subscription including Red Hat Enterprise Virtualization Manager for Servers and the Red Hat Enterprise Virtualization bare metal hypervisor. Optionally, Red Hat Enterprise Virtualization can manage Red Hat Enterprise Linux (purchased separately) deployed as hypervisor nodes.

Red Hat's simple subscription price structure provides 40 to 80 percent lower cost compared to other solutions for the same feature set. The subscription model allows customers to take advantage of future roadmap infrastructure advancements at no incremental cost.

SYSTEM REQUIREMENTS

Hypervisor hosts: 64-bit capable x86 servers supporting Intel VT or AMD-V hardware virtualization technology and certified for Red Hat Enterprise Linux 5.x

Must be running the Red Hat Enterprise Virtualization bare metal Hypervisor (included with Red Hat Enterprise Virtualization) or optionally Red Hat Enterprise Linux 5.4 or later (purchased separately)

Management server: x86 server running US English language version of Windows Server 2003 R2 with SP2, .Net 3.5 or later, Application Server role installed Windows Server 2008 not supported

Management console: x86 desktop or server running Windows XP SP2 or later, Windows Vista, Windows 7, Windows Server 2003 or later, and Internet Explorer 6-8

WHAT NEXT?

For more information, please go to <http://www.redhat.com/virtualization> or contact your local Red Hat Enterprise Virtualization reseller.

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