



RED HAT ENTERPRISE VIRTUALIZATION FOR DESKTOPS

OVERVIEW

With Red Hat Enterprise Virtualization for Desktops, complete desktop environments are hosted as virtual desktops on servers located in a centralized datacenter. Users connect to these virtual desktops, which can be either Microsoft® Windows® or Red Hat® Enterprise Linux® desktops, using either inexpensive thin clients or repurposed PCs.

Red Hat Enterprise Virtualization for Desktops is an end-to-end desktop virtualization solution featuring everything an enterprise needs to deploy virtualized desktops:

- **Red Hat Enterprise Virtualization Hypervisor** – A standalone, high-performance and secure hypervisor based on the Red Hat Enterprise Linux kernel with KVM (Kernel-based Virtual Machine) technology
- **Red Hat Enterprise Virtualization Manager** – a centralized management console with a comprehensive set of management tools that administrators can use to create, monitor, and maintain their virtual desktops
- **SPICE (Simple Protocol for Independent Computing Environments)** – an adaptive remote rendering protocol able to deliver an end user experience comparable to that of physical desktop
- **Integrated connection broker** – a web-based portal from which end-users can log into their virtual desktops

KEY BENEFITS

Improved data security

By moving desktop environments into the datacenter, Red Hat Enterprise Virtualization for Desktops helps enterprises safeguard their data and keep pace with today's fast-changing environment.

Increased manageability

With Red Hat Enterprise Virtualization for Desktops, desktop environments can be centrally created, monitored, and managed – reducing or even eliminating the need for on-site support.

Increased business agility and continuity

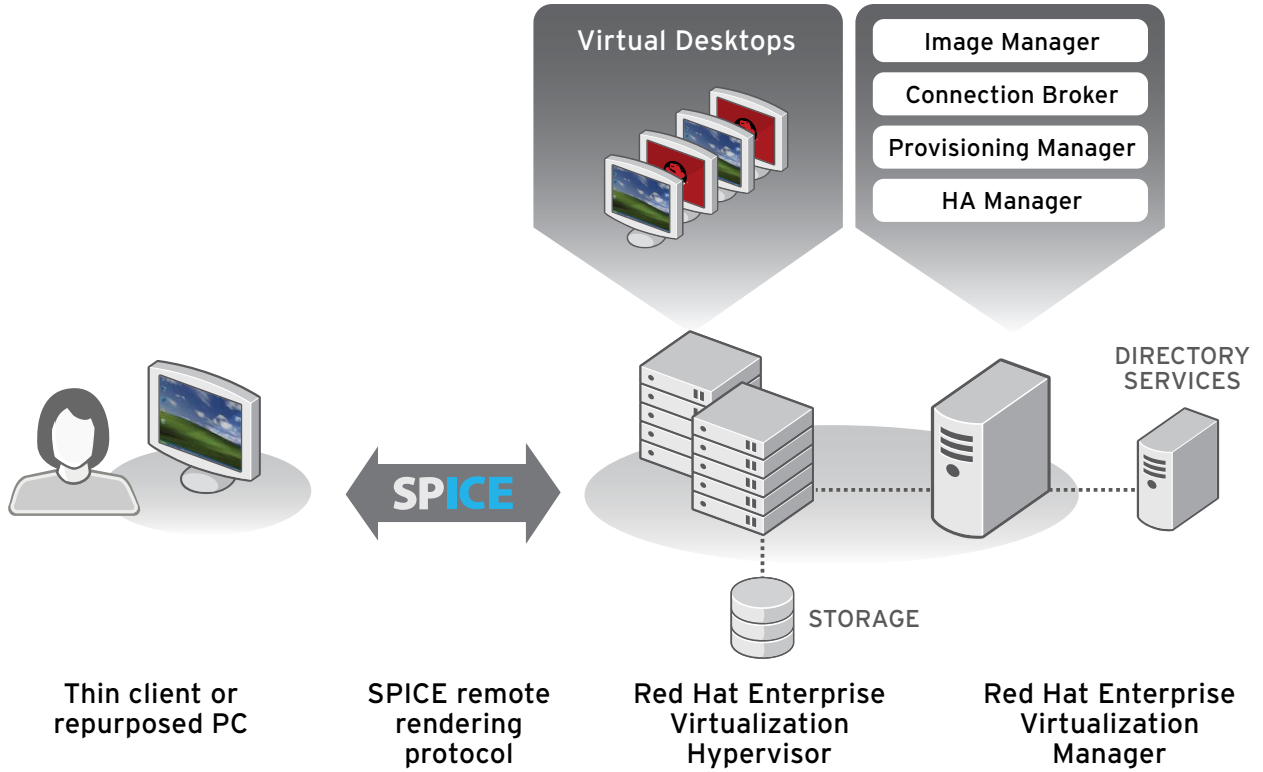
By eliminating the dependencies between the operating system and the underlying hardware, Red Hat Enterprise Virtualization for Desktops allows enterprises to defer desktop replacements and their associated costs. Additionally, this separation allows different operating systems to be accessed from the same device. Finally, the centralized nature of Red Hat Enterprise Virtualization for Desktops makes it possible to easily backup entire desktop environments, ensuring business continuity in the event of hardware failure or catastrophic events.

KEY FEATURES

Security and scalability

- **SSL Encryption** – Ensures secure data transmission between virtual desktops and the devices used to access them
- **Memory page sharing** – Maximizes the number of virtual desktops that can be hosted on a single hypervisor, lowering infrastructure and management costs
- **CPU and Core Abstraction** – Virtual desktops can use up to 16 virtual CPUs presented as virtual processors and virtual cores. For example, the maximum 16 virtual CPUs can be presented as 16 single-core CPUs, 8 dual-core CPUs, 4 quad-core CPUs, or 2 eight-core CPUs. This allows operating systems like Windows XP that only support 2 CPUs to take maximum advantage of virtualization server resources.

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Advanced Desktop Management

- **Rapid provisioning** – Create new desktop environments in minutes
- **Linked images** – Provision new virtual desktops based on master images, saving up to 90 percent storage capacity
- **Desktop pooling** – Create groups of virtual desktops that can be accessed on-demand, simplifying the provisioning process and increasing flexibility
- **Search-based management** – Easily search for virtual desktops with specific applications and specific versions, enabling rapid identification of virtual desktops in need of upgrades or patches

High Availability

- **Live migration** – Move virtual desktops from one host to another without any end-user interruption, facilitating maintenance, scheduled power savings, and load balancing
- **Load balancing** – Automatically load balance virtual desktops across available hosts to ensure optimal performance
- **Snapshots** – Capture the state of a virtual desktop at any given point in time, enabling rapid restoration of desktop environments in the case of an end point hardware failure
- **Flexible storage** – Store virtual desktop images and data using either iSCSI or Fibre Channel (FCP) shared storage

Exceptional End-User Experience

- **High-resolution display** – Users experience native color (32 bit), high resolution displays (up to 1920 x 1080 each) on their virtual desktops
- **Streaming video** – Users can view high-quality streaming video on their virtual desktops
- **Multi-monitor display** – Users can connect up to four monitors to a single virtual desktop
- **Bi-directional audio and video** – Users can make VoIP and video-conference calls from their virtual desktops
- **USB redirection** – Users can connect any USB 1.0 or 2.0 device to their virtual desktops

Red Hat Enterprise Virtualization for Desktops increases the security, manageability, and agility of enterprise desktop deployments. Built upon the industry-leading security and scalability of Red Hat Enterprise Linux, with support for both Microsoft Windows and Red Hat Enterprise Linux desktops, Red Hat Enterprise Virtualization for Desktops breaks down the barriers that have prevented enterprises from realizing the promise of desktop virtualization.

Learn more at redhat.com/rhev/desktop



ABOUT RED HAT

Red Hat was founded in 1993 and is headquartered in Raleigh, NC. Today, with more than 60 offices around the world, Red Hat is the largest publicly traded technology company fully committed to open source. That commitment has paid off over time, for us and our customers, proving the value of open source software and establishing a viable business model built around the open source way.

Red Hat provides high-quality, affordable technology to the enterprise. Our solutions are delivered via subscription and range from operating systems and platforms like Red Hat Enterprise Linux and JBoss Enterprise Middleware, to application and management tools, as well as consulting, training, and support.

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NORTH AMERICA
1-888-REDHAT1
www.redhat.com

**EUROPE, MIDDLE EAST
AND AFRICA**
00800 7334 2835
www.europe.redhat.com
europe@redhat.com

ASIA PACIFIC
+65 6490 4200
www.apac.redhat.com
apac@redhat.com

LATIN AMERICA
+54 11 4341 6200
www.latam.redhat.com
info-latam@redhat.com