DATASHEET

RED HAT ENTERPRISE VIRTUALIZATION FOR DESKTOPS 3.1

AT A GLANCE

- Lowest total cost of owner ship (TCO) of any major virtual desktop infrastructure (VDI) solution—up to 75% less expensive than competing solutions
- Significantly improve data security and mitigate risks
- Local PC-like user experience via the SPICE protocol, including audio/video and multimedia playback of any format or codec
- Simple installation and configuration relieves complexity burdens and creates provisioning efficiency
- Intuitive, browser-based central-management tools simplify resource management and growth
- Supports both Windows and Linux guest operating systems

OVERVIEW

Red Hat® Enterprise Virtualization is a complete virtualization management solution. Created by the people who brought you Red Hat Enterprise Linux, Red Hat Enterprise Virtualization takes you beyond bare metal to meet your critical business demands, while leveraging the performance advantages, competitive pricing, and trusted, stable environment that you expect from Red Hat.

Red Hat Enterprise Virtualization builds on the powerful Kernel-based Virtual Machine (KVM) hypervisor and the oVirt open virtualization management platform, projects started and released to the community by Red Hat. Red Hat Enterprise Virtualization is the platform of choice for virtualized Linux workloads and represents a true strategic virtualization alternative to organizations looking for better total cost of ownership, faster return on investment, and avoidance of vendor lock-in when compared to proprietary virtualization platforms.

KEY BENEFITS

Improve data security

Red Hat Enterprise Virtualization for Desktops helps organizations safeguard their data by moving desktop environments into the secure datacenter behind corporate firewalls, helping to reduce the risk of theft and meet strict government regulations and data privacy laws.

Lower infrastructure costs

By centralizing desktop environments into the datacenter, provisioning new desktop environments, maintaining existing systems, and monitoring desktop activity all become as simple as a few mouse clicks.

Increase manageability

Desktop environments can be centrally created, monitored, and managed—reducing or even eliminating the need for on-site support.

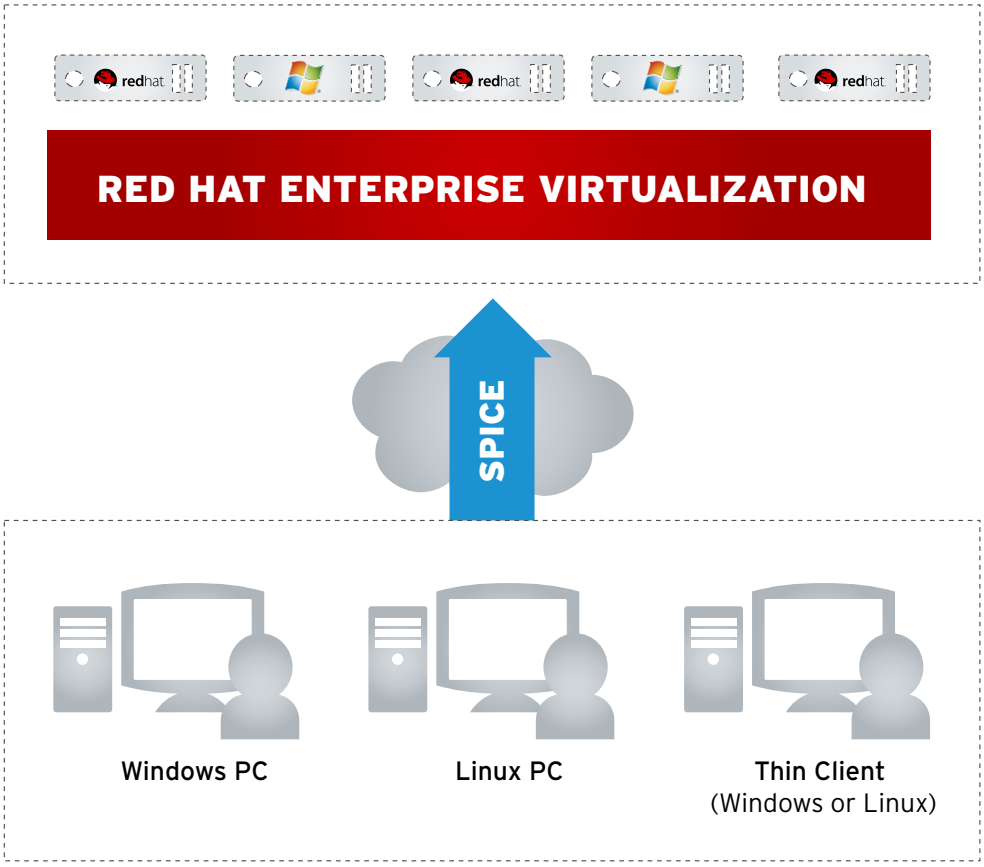

Figure 1

Create business continuity and data agility

By eliminating the dependencies between the operating system and the hardware, desktop environments reside within isolated and portable virtual machines, allowing mobility throughout the datacenter. Additionally, desktops are easily included in datacenter backup plans, creating an even greater level of continuity.

Improve application and client flexibility

Users can access multiple types of operating environments from various types of client devices. This provides application flexibility to Windows- and Linux-based applications, regardless of what client they run.

Key Features	Capability
Security and Scalability	• **SSL encryption—** Ensures a secure data transmission from the client • **SELinux and sVirt—** Kernel-level security policies that provide complete isolation and protection of data • **Memory overcommitment—** Assign more memory than is physically available on the host • **Highest VM density—** Support hundreds of virtual desktops on a single host, maximizing hardware utilization • **CPU and core abstraction—** Use up to 64 virtual CPUs presented as any combination of virtual processors and virtual cores
Advanced Desktop Management	• **Rapid provisioning—** Create new desktop environments in minutes, instead of days, weeks, or longer • **Thin provisioning—** Provision virtual desktops from master images without copying each new virtual hard drive, saving up to 90% storage space • **Desktop pooling—** Create groups of virtual desktops that can be accessed on demand, making the provisioning process more efficient and simplifying virtual desktop management • **Search-based management—** Easily search for virtual desktops with any specific attribute, enabling rapid identification of virtual desktops in need of upgrades or patches
Failover and Recovery	• **Live migration—** Move virtual desktops from one host server to another without interruption to the end user to facilitate system maintenance, create policies for load balancing, and more • **Load balancing—** Create policies that automatically load balance virtual desktops across available hypervisor hosts to ensure optimal performance and evenly balance system resources • **Snapshots—** Capture the state of a virtual desktop at any given point in time, enabling rapid restoration of desktop environments • **Flexible storage—** Store virtual desktop images and data using either iSCSI or Fibre Channel (FCP) shared storage, or utilize local disks for test environments
End User Experience	• **Bi-directional audio and video—** Make VoIP and video-conference calls from your virtual desktops • **Native video playback—** Provide an exceptional user experience at native frame rates when watching audio/video multimedia • **Any A/V format or codec—** SPICE delivers native playback of any audio/video format or codec without requiring they be locally installed on the client • **High-resolution multi-monitor display—** Experience native color (32-bit), high-resolution displays (2560x1600 each display) on up to four monitors for each virtual desktop • **USB redirection—** Connect any USB 1.0 or 2.0 device to your virtual desktops, enhanced USB remoting for Linux guests • **Copy and paste—** Copy and paste between virtual guests and/or client computers • **Autostart VM Pools—** Auto initialization of VMs that are ready to use when users access the system • **WAN Optimization—** Optimized user experience for low bandwidth/high latency networks. The bandwidth is adjusted according to the user's connection.

ABOUT RED HAT

Red Hat was founded in 1993 and is headquartered in Raleigh, NC. Today, with more than 70 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.

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