



RED HAT ENTERPRISE LINUX ADVANCED PLATFORM

THE POWER OF OPEN SOURCE

Red Hat® Enterprise Linux® Advanced Platform is the first complete open source solution that provides fully integrated, ready-to-go, commercial-strength, server and storage virtualization. Powerful open source capabilities that deliver value and flexibility.

VIRTUAL ENTERPRISE

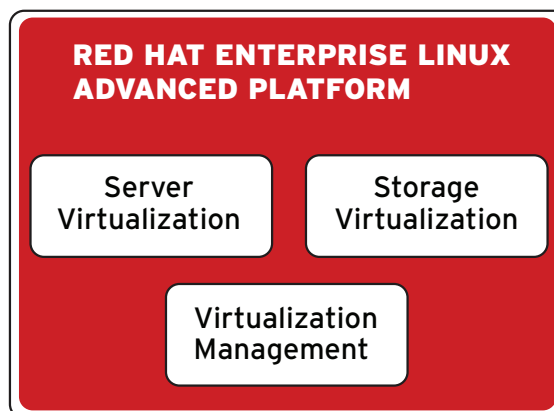
Red Hat Enterprise Linux Advanced Platform allows you to enjoy the benefits of virtualization quickly and easily, in all aspects of your IT environment, today. It provides everything you need to achieve the virtual enterprise in a single package—server, storage, and management.

OPEN SOURCE EVERYWHERE

Red Hat solutions, from Red Hat Enterprise Linux Advanced Platform to JBoss Enterprise Middleware Platform, offer compelling benefits for every IT manager. Improved utilization of assets, the ability to respond faster to changing business needs, greater application availability, and dramatic cost savings.

OVERVIEW

For many customers, traditional virtualization products have failed to provide a complete solution that enables them to enjoy the benefits of a fully virtualized IT infrastructure. Some products provide server virtualization, while others provide storage virtualization. Integration is minimal, resulting in poor performance and complexity, management tools are inconsistent, and customers aren't satisfied.



Red Hat Enterprise Linux Advanced Platform, introduced with Red Hat Enterprise Linux 5, integrates server and storage virtualization technologies into a single, easily managed product, delivering a complete and highly functional environment. Virtualization that is easy to deploy and manage. Flexible and available, all of the capabilities an IT organization needs.

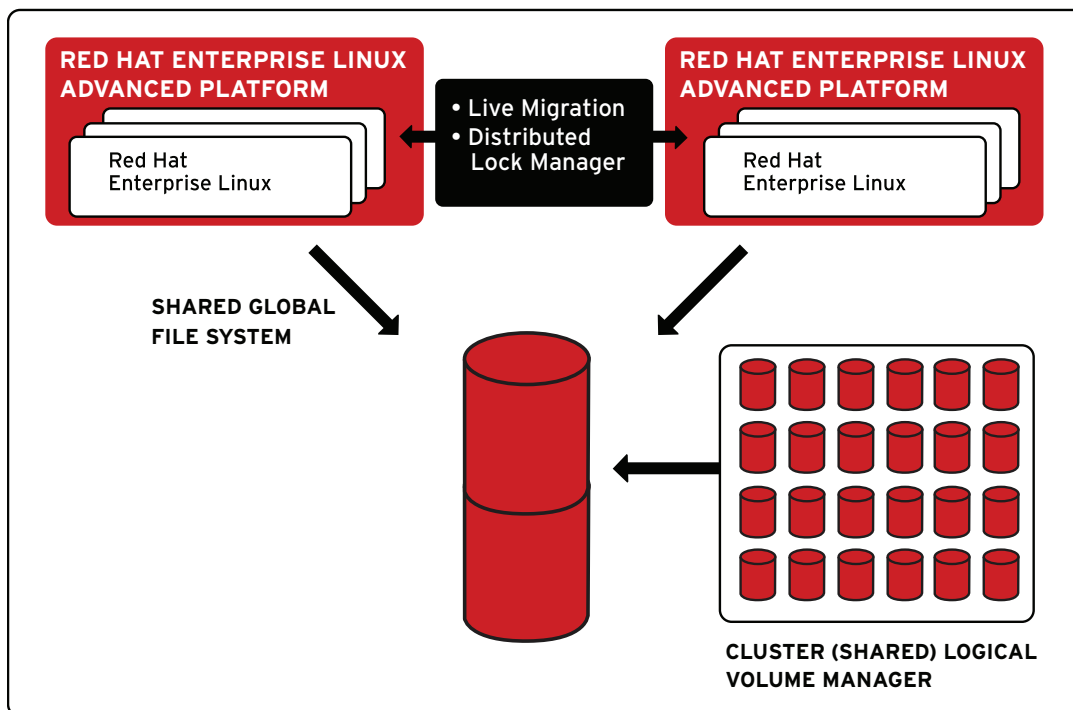
BENEFITS OF VIRTUALIZATION

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Customers are realizing that virtualization technology delivers a quantum step in IT operational flexibility, speed of deployment, application performance, and availability. Virtualization allows IT managers to deliver more to their customers while gaining control of their costs, and new and exciting uses for virtualized environments are being developed every day.

Primary benefits:

- Server consolidation - With virtualization, it is possible to consolidate the load of several lightly loaded servers onto one.
- Hardware abstraction - Virtualization makes it easy to deploy an older operating system and applications on new hardware.
- Resource management and high availability - The ability to move guest instances between systems enables workloads to be handled by the most appropriate system and continued operation during maintenance periods.
- Application isolation - With virtualization it is easy to encapsulate an application together with its operating system, performance, and configuration parameters, security environment, etc. into a single entity. This encapsulation enables applications to be tightly controlled and managed, immune from other changes in the IT environment.





VIRTUALIZATION TECHNOLOGIES

Red Hat Enterprise Linux Advanced Platform blends four primary technologies:

- **Server virtualization** - Allows a single server to host multiple guest operating systems. Multiple operating systems, multiple versions, multiple performance and security settings, all running on the same server. Red Hat Enterprise Linux Advanced Platform supports an unlimited number of guests—constrained only by the capacity of the physical server—with no additional subscription cost. Guests can be created in a few seconds, provisioned, suspended, resumed, deleted, and even moved to other physical servers while fully active.
- **Storage virtualization** - Based on Red Hat Global File System technology, storage virtualization allows multiple guests, running on the same or different servers, to access and share logical storage volumes and file systems. So the storage environment for every guest remains consistent, regardless of where it is running. By providing storage virtualization Red Hat Enterprise Linux Advanced Platform allows customers to reap the full benefits of server virtualization.
- **Management** - Red Hat Enterprise Linux Advanced Platform provides three primary management capabilities:
 - **Virt-Manager** - a GUI-based utility that allows system administrators to manage all aspects of virtualized system.
 - **libvirt and virsh** - a new library and command shell that enables customers to implement site-specific management strategies. Libvirt has program bindings for C/C++ and Python, so it can be readily incorporated into existing management tools.
 - **Red Hat Network** - enhanced to manage virtualized guest environments.

- **Clustering and Failover** - Red Hat Enterprise Linux Advanced Platform includes Red Hat Cluster Suite, which provides application and guest operating system failover capabilities. Applications can be moved between guest operating systems on the same or different physical system, and entire guest operating systems environments can be moved between physical systems. Applications can be monitored for correct behavior and the results used to trigger automated recovery procedures.

PURCHASING AND ADDITIONAL INFORMATION

Red Hat Enterprise Linux Advanced Platform is available as a complete, fully inclusive per-system annual subscription. The Advanced Platform option is not available for client products. For additional information and product pricing, refer to www.redhat.com or contact your local Red Hat representative.



FEATURE SUMMARY

FEATURE	RED HAT ENTERPRISE LINUX ADVANCED PLATFORM	RED HAT ENTERPRISE LINUX
Number of supported active guest operating systems	Unlimited	4
Supported para-virtualized guests	Red Hat Enterprise Linux 5 Red Hat Enterprise Linux 4 Update 5	
Supported fully virtualized guests	Red Hat Enterprise Linux 5 Red Hat Enterprise Linux 4 Red Hat Enterprise Linux 3	
Third-party fully virtualized guests (unsupported)	Microsoft® Windows® Other Linux distributions	
Para-virtualized guest processor hardware requirements	None (x86 systems must provide PAE)	
Fully virtualized guest processor hardware requirements	Intel Virtualization Technology or AMD-V	
Virtualized guest memory requirements	Each active guest requires the same physical memory that it would require to run in a non-virtualized environment	
Architecture support for virtualization	Supported at product release: x86, x86-64 Technology preview at product release: Itanium2	
Storage support	DASD, iSCSI, SAN, NAS	
Network support	10/100/1000/10G Ethernet, Infiniband, Fibre Channel	
Hardware and application certification	All Red Hat Enterprise Linux OEM and ISV partner certifications are valid for virtualized and non-virtualized environments except where noted	
Manageability	Red Hat Network Virt-Manager - GUI libvirt/virsh - scriptable library and shell	
	Conga cluster/storage GUI	N/A
Cluster Suite failover	Yes	No
Distributed Lock Management	Operates fully distributed across multiple virtualized guests and physical systems	Operates within a single virtualized guest or physical system
Logical Volume Management		
Global File System		

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