IBM System x, BladeCenter, and iDataPlex systems now offer Red Hat Enterprise Linux (RHEL) and Red Hat Enterprise Virtualization Manager (RHEV-M) for Servers subscriptions

Table of contents
2 Overview 10 Publications
2 Key prerequisites 11 Technical information
3 Planned availability date 12 Terms and conditions
3 Description 14 Prices
7 Product number 14 Announcement countries

At a glance

The new Red Hat Enterprise Linux® (RHEL) Server offerings replaces RHEL up to 2 socket, RHEL Advanced Platform, RHEL for VMware, RHEL as Virtual Guests. Clients can buy one subscription and use it on bare metal or in a virtualized environment. With any RHEL Server edition, clients can run an unlimited number of non-RHEL guests. Choose the RHEL Server edition, depending on the number of RHEL guests you will require. You can deploy the RHEL guests on your choice of hypervisor. There are 2-socket, 4-socket, and 8-socket offerings within each edition.

For more information, refer to

http://www.redhat.com/rhel/server/

Optional functionality can be added to a Red Hat Enterprise Linux Server subscription. Pricing is in addition to the price of the underlying Red Hat Enterprise Linux Server subscription. The Add-On inherits the support of the underlying Red Hat Enterprise Linux Server subscription, thus the Add-On price is set depending on the underlying RHEL subscription. Add-on offerings are not available when using the older Red Hat packaging, including RHEL 2 socket or RHEL Advanced Platform.

For more information, refer to

http://www.redhat.com/rhel/add-ons/

Red Hat Enterprise Virtualization for Servers is an end-to-end virtualization solution that is designed to enable pervasive data center virtualization, and unlock unprecedented capital and operational efficiency. Red Hat Enterprise Virtualization for Servers (RHEV-M) builds upon the Red Hat Enterprise Linux platform that is trusted by millions of organizations around the world for their most mission-critical workloads.

For more information, refer to

http://www.redhat.com/virtualization/rhev/server/

Red Hat Network Satellite is an easy-to-use systems management platform for your growing Linux infrastructure. Built on open standards, RHN Satellite provides powerful systems administration capabilities such as management, provisioning, and monitoring for large deployments. Satellite allows you to manage many servers as easily as you would one.
Overview

In order to offer clients more choice and freedom in tailoring a Red Hat Enterprise Linux subscription to meet their specific use case and budget, IBM and Red Hat are announcing new Red Hat Enterprise Linux Server (RHEL Server) offerings with IBM® System x®, BladeCenter®, and iDataPlex servers. Subscriptions are available with flexible guest entitlements of one, four, or unlimited guests per physical host. RHEL Server subscriptions can also be customized for HPC environments.

- Provides a flexible computing environment: Clients are architecting their data centers to give them the choice of deploying a workload either on a physical machine or a virtual machine. This means they want to buy one RHEL subscription and have the ability to deploy it on a bare metal server or in a virtual machine that is running on any of the most commonly available commercial-grade hypervisors, including Red Hat's Xen or KVM hypervisors, VMware's ESX hypervisor, or Microsoft's Hyper-V hypervisor.
- Gives clients more choices in optional software that can be run with a RHEL Server subscription: Clients want to pay for just what they use. They want the ability to pick and choose which layered products they add to their RHEL Server subscriptions.
- Continues release independence of packaging: Client installs any previous release they wish and can upgrade at anytime during the subscription.

In addition, the Red Hat portfolio is expanded to include Red Hat Enterprise Virtualization Manager for Server (RHEV-M Server) and Red Hat Network Satellite. RHEV-M Server is 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 Network Satellite is a systems management platform that makes RHEL and RHEV-M Server deployable, scalable, manageable, and consistent.

Key prerequisites

- Must be ordered with or for usage on System x hardware.
- Supported on System x and BladeCenter servers running the appropriate version Linux operating systems.
- Media kits contain DVD optical media. It is recommended that an optical DVD drive be configured with the cluster if a media kit is ordered.
- RHEL and RHEV-M Server offerings part numbers may be sold only with a new IBM-branded Intel® or AMD processor-based server, limited to the quantity necessary for the server being purchased.
- RHEL and RHEV-M Server offerings may also be sold as a renewal subscription, but only if the client has purchased the original RHEL and RHEV-M Server subscription from IBM.
- A RHEL 'Media kit' offering may be sold only if the client is purchasing a subscription offering from IBM. The media kits contain both DVD and CD media. It is recommended that an Optical DVD Drive be configured with the server.
- Clients must purchase support with RHEL and RHEV-M Server offerings, from either Red Hat or IBM. Customers may purchase either an IBM Remote Technical Support or IBM Support Line offering from IBM. IBM Support is purchased separately and in addition to the Red Hat offerings that do not include Red Hat Support, unless otherwise noted.
Planned availability date

May 06, 2011

Description

Every day, millions of dollars in trades, purchases, and analysis are generated on systems running Red Hat Enterprise Linux. With support for every major hardware platform and thousands of commercial and custom applications, Red Hat Enterprise Linux has become a global standard for enterprise data centers. In this time of massive and disruptive technological change, Red Hat Enterprise Linux provides businesses with the stability and flexibility they need to not only survive, but to thrive, as they transition to the next generation of IT computing.

Red Hat Enterprise Linux is the foundation of a long-term IT strategy, supporting all leading hardware architectures with compatibility across releases and including a seven-year update and support life cycle (optionally extendable to ten years). Modular, flexible, robust architecture and management tools offer more control and scalability, and a portfolio of Add-On options enhance infrastructure and application availability.

New standards in multicore and virtual systems require a platform that can manage complexity - scaling up or out to meet business needs. Red Hat Enterprise Linux has proven performance on systems with over a hundred cores and terabytes of memory, making it suitable for the largest enterprise application deployments. With technology designed specifically for monitoring, managing, and securing applications, Red Hat Enterprise Linux is an ideal guest on any of the major virtualization platforms.

Red Hat Enterprise Linux allows businesses to deploy physical, virtual, and cloud computing within their data centers. Red Hat technologies span all environments, removing barriers, increasing efficiency, and leveraging employee skills. Integrated virtualization allows physical and virtual deployments to interoperate, while fine-grained control of compute resources (for example, CPU, memory, networking, and I/O) allows businesses to manage application and guest service-level agreements (SLAs). Power management features reduce data center carbon footprint, and enhanced interoperability simplifies integration into Microsoft® Windows® Active Directory environments.

RHEL Server

RHEL Server is a versatile platform that can be deployed on physical systems, as a guest on the major hypervisors, or in the cloud. Customers, ISVs, System Integrators, and other business partners depend on the stability of the Red Hat Enterprise Linux core system infrastructure, provided by published interfaces (kABI, core libraries, and service infrastructure) that Red Hat assures through and across releases.

RHEL Server Pooling

RHEL Server allows RHEL virtual guests to be pooled across multiple machines. If every server in your clustered server farm or internal cloud has a Red Hat Enterprise Linux Server subscription that includes support for multiple RHEL virtual guests, the RHEL guests do not have to be locked to each physical server; you can pool the guests. However, every server in the cluster must have an identical edition of the RHEL Server subscription on each server.

- All hosts that can possibly run a VM with RHEL as the guest OS must have a RHEL Server subscription.
• All hosts in a cluster sharing VMs with RHEL as the guest OS must be at the same support level (that is, you can't have a mix of Standard and Premium support).
• All hosts in a cluster sharing VMs with RHEL as the guest OS must provide the same number of virtual guests subscriptions.

The total number of virtual machines running with RHEL as the guest OS cannot exceed the sum of all the RHEL guests provided by the RHEL Server subscriptions on the servers that are being pooled.

For example, in a 4-node clustered server farm, if the client purchased identical Red Hat Enterprise Linux Server with up to four virtual guests for all four nodes in the server farm, then the client has a pool of 16 RHEL guests that can be deployed in any combination on the four nodes, so long as the total number of guests does not exceed 16.

RHEL Server Stacking
Red Hat also allows stacking. You can stack more than one Red Hat Enterprise Linux Server subscription on a single server. If in the example of RHEL Server pooling above, the client needed four more RHEL guests in their clustered server farm or internal cloud, the client could purchase an additional Red Hat Enterprise Linux Server with up to four virtual guests which would increase the total of RHEL guests in the pool from 16 to 20.

RHEL for HPC Head Node and RHEL for HPC Compute Node
Red Hat offers packages specifically for the scientific user who needs to deploy clusters of systems that work together to take on the most challenging of missions.

An HPC (High Performance Computing) Compute Node is designed for deployment as a member of an HPC cluster. Primary goals in this deployment model are a slim component set, excellent hardware detection and monitoring capabilities, centralized authentication and logging services, and fast IO.

RHEL for HPC Head Node is a full-featured platform to be deployed as the interactive system in an HPC cluster. If you select a Red Hat Enterprise Linux for HPC Head Node offering that includes Red Hat Support, then each RHEL for HPC Compute Node subscription inherits the Red Hat support level of the Red Hat Enterprise Linux for HPC Head Node that is deployed in the cluster.

If you select a Red Hat Enterprise Linux for HPC Head node offering that does not include Red Hat support, but is a subscription only offering, you must purchase IBM Support separately for the head node. The RHEL for HPC Compute Node subscriptions in this HPC cluster may not inherit the IBM support sold with the Red Hat Enterprise Linux for HPC Head node. IBM SupportLine or IBM Remote Technical support coverage may be optionally separately purchased for the RHEL HPC Compute Node servers in the HPC cluster.

Add-On Functionality
Optional functionality can be added to a Red Hat Enterprise Linux Server subscription. Pricing is in addition to the price of the underlying Red Hat Enterprise Linux Server subscription. The Add-On inherits the support of the underlying Red Hat Enterprise Linux Server subscription, thus the Add-On price is set depending on the underlying RHEL subscription. Add-on offerings are not available when using the older Red Hat packing, including RHEL 2 socket or RHEL Advanced Platform.

Add-Ons to Red Hat Enterprise Linux allow you to tailor your application environment with workload extensions to suit your particular computing requirements.
### Add-On Options for High Availability

- **High Availability Add-On**

  Red Hat's High Availability Add-On provides on-demand failover to make applications highly available. The High Availability Add-On may be configured for most applications that use customizable agents, as well as for virtual guests. The High Availability Add-On includes failover support for off-the-shelf applications like Apache, MySQL, and PostgreSQL.

- **Resilient Storage Add-On**

  Red Hat's Resilient Storage Add-On enables a shared storage or clustered file system to access the same storage device over a network. By providing consistent storage across a cluster of servers, Red Hat's Resilient Storage Add-On creates a pool of data that is available to each server in the group; but which also is protected if any one server fails. Note, the Resilient Storage Add-On includes the High Availability Add-On that may be used to protect applications and storage.

- **Load Balancer Add-On**

  Red Hat's Load Balancer Add-On provides redundancy for web serving, databases, networking, and storage. By creating a virtual address that can be directed to a real server for load balancing or traffic shaping, the Red Hat Load Balancer Add-On allows you to quickly add or remove servers or change balancing algorithms using a browser-based graphical user interface (GUI).

### Add-On Options for Scalability

- **Scalable File System Add-On**

  Red Hat's Scalable File System Add-On provides support for file systems that are more than 16 terabytes in size. You can manage these large data stores using advanced features such as 64-bit journaling and advanced locking algorithms.

- **High Performance Network Add-On**

  Red Hat's High Performance Network Add-On delivers remote directory memory access over converged Ethernet (RoCE) for those times when low network latency and high capacity are important. Because RoCE bypasses system and kernel calls to place data directly into remote system memory with less CPU overhead, the High Performance Networking Add-On is ideal for high-speed data processing applications that require low latency, for speeding up cluster locking, or for scaling up applications on distributed systems without investing in specialized networking technologies.

### Add-On Options for Management

- **Smart Management Add-On**


### Add-On Option for Lifecycle Management

- **Extended Update Support Add-On**

  The standard seven-year lifecycle for Red Hat Enterprise Linux ensures application binary interface (ABI) and application programming interface (API) stability throughout the support period with regular delivery of technology updates and security packages. However, for those organizations that wish to stay on a particular snapshot for an extended period of time, Red Hat offers the Extended Update Support Add-On, which extends the support period of an update for 18 months and delivers overlapping release support to give enterprise clients more flexibility.
Add-On Subscription Availability Matrix

<table>
<thead>
<tr>
<th>Add-On</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Availability</td>
<td>Red Hat Enterprise Linux Server</td>
</tr>
<tr>
<td>Resilient Storage</td>
<td>Red Hat Enterprise Linux Server, Red Hat Enterprise Linux for HPC Head Node</td>
</tr>
<tr>
<td>Load Balancer</td>
<td>Red Hat Enterprise Linux Server</td>
</tr>
<tr>
<td>Scalable File System</td>
<td>Red Hat Enterprise Linux Server, Red Hat Enterprise for Linux for HPC Head Node</td>
</tr>
<tr>
<td></td>
<td>Red Hat Enterprise Linux for HPC Compute Node</td>
</tr>
<tr>
<td>High Performance Network</td>
<td>Red Hat Enterprise Linux Server, Red Hat Enterprise Linux for HPC Head Node</td>
</tr>
<tr>
<td></td>
<td>Red Hat Enterprise Linux for HPC Compute Node</td>
</tr>
<tr>
<td>Smart Management</td>
<td>Available on all versions of Red Hat Enterprise Linux</td>
</tr>
<tr>
<td>Extended Update Support</td>
<td>Red Hat Enterprise Linux Server</td>
</tr>
</tbody>
</table>

Red Hat Enterprise Virtualization Manager for Servers (RHEV-M Server)

Red Hat Enterprise Virtualization builds upon the Red Hat Enterprise Linux platform that is trusted by thousands of organizations on millions of systems around the world for mission-critical workloads. It provides:

- Record-breaking performance and scalability
- Industry-leading security
- Widest ecosystem of hardware and enterprise ISVs
- Lowest total cost of ownership in its class

Red Hat Enterprise Virtualization is an ideal platform on which to build an internal or private cloud of Red Hat Enterprise Linux or Windows virtual machines.

RHEV-M Server consists of the following components:

- Red Hat Enterprise Virtualization Manager: A feature-rich server virtualization management system that provides advanced capabilities for hosts and guests, including high availability, live migration, storage management, and system scheduler.
- Red Hat Enterprise Virtualization Hypervisor™: A modern hypervisor based on Kernel-Based Virtual Machine (KVM) virtualization technology which is deployed as the stand-alone bare metal hypervisor.

Note: Red Hat Enterprise Virtualization Hypervisor can also be purchased separately as it is included in Red Hat Enterprise Linux (release 5.4, or later).

Virtualization currently represents only about 20% of enterprise workloads, according to industry analysts. Red Hat Enterprise Virtualization helps your organization meet the challenges of virtualization:

- Performance and scalability: Providing near- and better-than-bare metal performance and industry-leading scalability for enterprise workloads.
- Security: Leveraging SELinux and the hardened Red Hat Enterprise Linux kernel to provide a secure virtualization infrastructure.
- Ecosystem: Supporting the leading enterprise hardware, operating systems, and applications certified for Red Hat Enterprise Linux.
- Cost: Bringing unbeatable value in enterprise virtualization - by subscription.
Red Hat Network Satellite

Red Hat Network (RHN) Satellite is a systems management platform that makes Linux deployable, scalable, manageable, and consistent. RHN Satellite provides administrators with the tools to efficiently manage their systems lowering per-system, deployment, and management costs. RHN Satellite offers security by having a single centralized tool, secure connection policies for remote administration, and secure content. Use RHN Satellite to ensure security fixes and configuration files are applied across your environment consistently.

- One-click software updates in an easy to use interface
- Role-based administration
- Flexible delivery architectures - Satellite, Proxy, Hosted
- Group systems together for easier administration
- Automate formerly manual tasks
- Manage the complete life cycle of your Linux infrastructure
- Track the performance of your Linux systems

Special Bid and ELAs

To help facilitate special bids or Enterprise License Agreements, special bid offerings are being announced for Linux opportunities for Red Hat.

How to compare older RHEL offerings to the new RHEL Server offerings

<table>
<thead>
<tr>
<th>Older Product</th>
<th>New RHEL Server offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHEL ES</td>
<td>RHEL Server (2 sockets, 1 guest)</td>
</tr>
<tr>
<td>RHEL (up to 2 sockets)</td>
<td>RHEL Server (2 sockets, 1 guest)</td>
</tr>
<tr>
<td>RHEL AS</td>
<td>RHEL Server (4 sockets, 1 guest)</td>
</tr>
<tr>
<td>RHEL Advanced Platform</td>
<td>RHEL Server (4 sockets, 1 guest)</td>
</tr>
<tr>
<td>RHEL for VMware (4-guests)</td>
<td>RHEL Server (2 sockets, 4 guest)</td>
</tr>
<tr>
<td>RHEL as a Virtual Guest (4-guests)</td>
<td>RHEL Server (2 sockets, 4 guest)</td>
</tr>
<tr>
<td>RHEL AP for VMware (10 Guests)</td>
<td>RHEL Server (4 sockets, unlimited guest)</td>
</tr>
<tr>
<td>RHEL as a Virtual Guest (unlimited-guests)</td>
<td>RHEL Server (4 sockets, unlimited guest)</td>
</tr>
<tr>
<td>Clustered Suite</td>
<td>High Availability</td>
</tr>
<tr>
<td>Global File System (included Clustered Suite)</td>
<td>Resilient Storage (Includes High Availability)</td>
</tr>
</tbody>
</table>

Product number

MTM part numbers

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4815X0U</td>
<td>RHEL Server 2 Skts 1 Guest Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815X1U</td>
<td>RHEL Server 2 Skts 4 Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815X2U</td>
<td>RHEL Server 2 Skts Unlimited Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815X3U</td>
<td>RHEL Server 2 Skts 1 Guest Std Subs Only 1Yr</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>4815X4U</td>
<td>RHEL Server 2 Skts 4 Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815X5U</td>
<td>RHEL Server 2 Skts Unlimited Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815X6U</td>
<td>RHEL Server 2 Skts 1 Guest Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815X7U</td>
<td>RHEL Server 2 Skts 4 Guests Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815X8U</td>
<td>RHEL Server 2 Skts Unlimited Guests Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815X9U</td>
<td>RHEL Server 2 Skts 1 Guest Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XAU</td>
<td>RHEL Server 2 Skts 4 Guests Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XBU</td>
<td>RHEL Server 2 Skts Unlimited Guests Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XCU</td>
<td>RHEL Server 4 Skts 1 Guest Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XDU</td>
<td>RHEL Server 4 Skts 4 Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XNU</td>
<td>RHEL Server 4 Skts Unlimited Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XFU</td>
<td>RHEL Server 4 Skts 1 Guest Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XGU</td>
<td>RHEL Server 4 Skts 4 Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XHU</td>
<td>RHEL Server 4 Skts Unlimited Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XIU</td>
<td>RHEL Server 4 Skts 1 Guest Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XJU</td>
<td>RHEL Server 4 Skts 4 Guests Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XKU</td>
<td>RHEL Server 4 Skts Unlimited Guests Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XLU</td>
<td>RHEL Server 4 Skts 1 Guest Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XLU</td>
<td>RHEL Server 4 Skts 4 Guests Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XMU</td>
<td>RHEL Server 4 Skts Unlimited Guests Std Subs Only 3Yr</td>
</tr>
<tr>
<td>4815XOU</td>
<td>RHEL Server 8 Skts 1 Guest Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XPU</td>
<td>RHEL Server 8 Skts 4 Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XQU</td>
<td>RHEL Server 8 Skts Unlimited Guests Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XRU</td>
<td>RHEL Server 8 Skts 1 Guest Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XSU</td>
<td>RHEL Server 8 Skts 4 Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XTU</td>
<td>RHEL Server 8 Skts Unlimited Guests Std Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y0U</td>
<td>RHEL High-Availability 2 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y1U</td>
<td>RHEL High-Availability 4 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y2U</td>
<td>RHEL High-Availability 8 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y3U</td>
<td>RHEL High-Availability 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y4U</td>
<td>RHEL High-Availability 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y5U</td>
<td>RHEL High-Availability 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y6U</td>
<td>Red Hat Network Satellite Server Prem Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y7U</td>
<td>Red Hat Network Satellite Server Prem Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y0U</td>
<td>RHEL Resilient Storage 2 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y1U</td>
<td>RHEL Resilient Storage 4 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y2U</td>
<td>RHEL Resilient Storage 8 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y3U</td>
<td>RHEL Resilient Storage 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y4U</td>
<td>RHEL Resilient Storage 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y5U</td>
<td>RHEL Resilient Storage 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y6U</td>
<td>RHEL Scalable File System 2 sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y7U</td>
<td>RHEL Scalable File System 4 sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y8U</td>
<td>RHEL Scalable File System 8 sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y9U</td>
<td>RHEL Scalable File System 2 sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YAU</td>
<td>RHEL Scalable File System 4 sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YBU</td>
<td>RHEL Scalable File System 8 sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YUU</td>
<td>RHEL Load Balancer 2 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YVU</td>
<td>RHEL Load Balancer 4 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YWU</td>
<td>RHEL Load Balancer 8 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815XYU</td>
<td>RHEL Load Balancer 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YXU</td>
<td>RHEL Load Balancer 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YYU</td>
<td>RHEL Load Balancer 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YWU</td>
<td>RHEL Load Balancer 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YXU</td>
<td>RHEL Load Balancer 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YYU</td>
<td>RHEL Load Balancer 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y3U</td>
<td>RHEL High Perf Network 2 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y4U</td>
<td>RHEL High Perf Network 4 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y5U</td>
<td>RHEL High Perf Network 8 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y6U</td>
<td>RHEL High Perf Network 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y7U</td>
<td>RHEL High Perf Network 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y8U</td>
<td>RHEL High Perf Network 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y9U</td>
<td>RHEL High Perf Network 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YAU</td>
<td>RHEL High Perf Network 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YBU</td>
<td>RHEL High Perf Network 8 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YCU</td>
<td>RHEL Smart Management 1 Guest Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YDU</td>
<td>RHEL Smart Management 4 Guests Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y5U</td>
<td>RHEL Smart Management Unlimited Guests Subs Only 1Yr</td>
</tr>
<tr>
<td>4815Y6U</td>
<td>RHEL Smart Management 1 Guest Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y7U</td>
<td>RHEL Smart Management 4 Guests Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y8U</td>
<td>RHEL Smart Management Unlimited Guests Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y9U</td>
<td>RHEL Extended update Support 2 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YAU</td>
<td>RHEL Extended update Support 4 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YBU</td>
<td>RHEL Extended update Support 8 Sockets Subs Only 1Yr</td>
</tr>
<tr>
<td>4815YCU</td>
<td>RHEL Extended update Support 2 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815YDU</td>
<td>RHEL Extended update Support 4 Sockets Subs Only 3Yr</td>
</tr>
<tr>
<td>4815Y5U</td>
<td>RHEL Extended update Support 8 Sockets Subs Only 3Yr</td>
</tr>
</tbody>
</table>
4815ZSU  RHEL Extended Update Support 4 Sockets Subs Only 3Yr
4815ZTU  RHEL Extended Update Support 8 Sockets Subs Only 3Yr
4815W0U  RHEL Server 2 Skts 1 Guest Prem RH Support 1Yr
4815W1U  RHEL Server 2 Skts 4 Guests Prem RH Support 1Yr
4815W2U  RHEL Server 2 Skts Unlimited Guests Prem RH Support 1Yr
4815W3U  RHEL Server 2 Skts 1 Guest Std RH Support 1Yr
4815W4U  RHEL Server 2 Skts 4 Guests Std RH Support 1Yr
4815W5U  RHEL Server 2 Skts Unlimited Guests Std RH Support 1Yr
4815W6U  RHEL Server 2 Skts 1 Guest Prem RH Support 3Yr
4815W7U  RHEL Server 2 Skts 4 Guests Prem RH Support 3Yr
4815W8U  RHEL Server 2 Skts Unlimited Guests Prem RH Support 3Yr
4815W9U  RHEL Server 2 Skts 1 Guest Std RH Support 3Yr
4815WAU  RHEL Server 2 Skts 4 Guests Std RH Support 3Yr
4815WBU  RHEL Server 2 Skts Unlimited Guests Std RH Support 3Yr
4815WCU  RHEL Server 4 Skts 1 Guest Prem RH Support 1Yr
4815WDU  RHEL Server 4 Skts 4 Guests Prem RH Support 1Yr
4815WEU  RHEL Server 4 Skts Unlimited Guests Prem RH Support 1Yr
4815WFU  RHEL Server 4 Skts 1 Guest Std RH Support 1Yr
4815WGU  RHEL Server 4 Skts 4 Guests Std RH Support 1Yr
4815WHU  RHEL Server 4 Skts Unlimited Guests Std RH Support 1Yr
4815W1U  RHEL Server 4 Skts 1 Guest Prem RH Support 3Yr
4815W2U  RHEL Server 4 Skts 4 Guests Prem RH Support 3Yr
4815W3U  RHEL Server 4 Skts Unlimited Guests Prem RH Support 3Yr
4815W4U  RHEL Server 4 Skts 1 Guest Std RH Support 3Yr
4815W5U  RHEL Server 4 Skts 4 Guests Std RH Support 3Yr
4815W6U  RHEL Server 4 Skts Unlimited Guests Std RH Support 3Yr
4815W7U  RHEL Server 4 Skts 1 Guest Prem RH Support 3Yr
4815W8U  RHEL Server 4 Skts 4 Guests Prem RH Support 3Yr
4815W9U  RHEL Server 4 Skts Unlimited Guests Prem RH Support 3Yr
4815WBU  RHEL Server 4 Skts 1 Guest Std RH Support 3Yr
4815WCU  RHEL Server 4 Skts 4 Guests Std RH Support 3Yr
4815W5U  RHEL Server 4 Skts Unlimited Guests Std RH Support 3Yr
4815W6U  RHEL Server 4 Skts 1 Guest Prem RH Support 3Yr
4815W7U  RHEL Server 4 Skts 4 Guests Prem RH Support 3Yr
4815W8U  RHEL Server 4 Skts Unlimited Guests Prem RH Support 3Yr
4815W9U  RHEL Server 4 Skts 1 Guest Std RH Support 3Yr
4815WAU  RHEL Server 4 Skts 4 Guests Std RH Support 3Yr
4815WBU  RHEL Server 4 Skts Unlimited Guests Std RH Support 3Yr
4815V8U  Red Hat Network Satellite Server Prem RH Support 1Yr
4815V9U  Red Hat Network Satellite Server Prem RH Support 3Yr
4815VBU  RHEL High-Availability 2 Sockets RH Support 1Yr
4815VBU  RHEL High-Availability 4 Sockets RH Support 1Yr
4815VBU  RHEL High-Availability 8 Sockets RH Support 1Yr
4815V6U  RHEL High-Availability 2 Sockets RH Support 3Yr
4815V8U  RHEL High-Availability 4 Sockets RH Support 3Yr
4815V8U  RHEL High-Availability 8 Sockets RH Support 3Yr
4815VAU  RHEL Resilient Storage 2 Sockets RH Support 1Yr
4815VBU  RHEL Resilient Storage 4 Sockets RH Support 1Yr
4815VBU  RHEL Resilient Storage 8 Sockets RH Support 1Yr
4815VBU  RHEL Resilient Storage 2 Sockets RH Support 3Yr
4815VBYU  RHEL Resilient Storage 4 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 8 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 2 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 4 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 8 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 2 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 4 Sockets RH Support 3Yr
4815VBU  RHEL Resilient Storage 8 Sockets RH Support 3Yr
4815VBU  RHEL Load Balancer 2 Sockets RH Support 1Yr
4815VBU  RHEL Load Balancer 4 Sockets RH Support 1Yr
4815VBU  RHEL Load Balancer 8 Sockets RH Support 1Yr
4815VBU  RHEL Load Balancer 2 Sockets RH Support 3Yr
4815VBU  RHEL Load Balancer 4 Sockets RH Support 3Yr
4815VBU  RHEL Load Balancer 8 Sockets RH Support 3Yr
4815VBU  RHEL High Perf Network 2 Sockets RH Support 1Yr
4815VBU  RHEL High Perf Network 4 Sockets RH Support 1Yr
4815VBU  RHEL High Perf Network 8 Sockets RH Support 1Yr
4815VBU  RHEL High Perf Network 2 Sockets RH Support 3Yr
4815VBU  RHEL High Perf Network 4 Sockets RH Support 3Yr
4815VBU  RHEL High Perf Network 8 Sockets RH Support 3Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 1Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 1Yr
4815VBU  RHEL Smart Management Unlimited Guests RH Support 1Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 3Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 3Yr
4815VBU  RHEL Smart Management Unlimited Guests RH Support 3Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 3Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 3Yr
4815VBU  RHEL Smart Management Unlimited Guests RH Support 3Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 3Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 3Yr
4815VBU  RHEL Smart Management Unlimited Guests RH Support 3Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 3Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 3Yr
4815VBU  RHEL Smart Management Unlimited Guests RH Support 3Yr
4815VBU  RHEL Smart Management 1 Guest RH Support 3Yr
4815VBU  RHEL Smart Management 4 Guests RH Support 3Yr

4815ZMU  RHEL Smart Management 4 Guests RH Support 3Yr
4815ZNU  RHEL Smart Management Unlimited Guests RH Support 3Yr
4815ZUU  RHEL Extended update Support 2 Sockets RH Support 1Yr
4815ZVU  RHEL Extended update Support 4 Sockets RH Support 1Yr
4815ZWW  RHEL Extended update Support 8 Sockets RH Support 1Yr
4815ZXX  RHEL Extended update Support 2 Sockets RH Support 3Yr
4815ZYY  RHEL Extended update Support 4 Sockets RH Support 3Yr
4815ZZU  RHEL Extended update Support 8 Sockets RH Support 3Yr
4815U0U  RHEL for HPC 2 Skts Head Node Prem Subs Only 1Yr
4815U1U  RHEL for HPC 2 Skts Head Node Std Subs Only 1Yr
4815U2U  RHEL for HPC 2 Skts Head Node Prem Subs Only 3Yr
4815U3U  RHEL for HPC 2 Skts Head Node Std Subs Only 3Yr
4815U4U  RHEL for HPC 4 Skts Head Node Prem Subs Only 1Yr
4815U5U  RHEL for HPC 4 Skts Head Node Std Subs Only 1Yr
4815U6U  RHEL for HPC 4 Skts Head Node Prem Subs Only 3Yr
4815U7U  RHEL for HPC 4 Skts Head Node Std Subs Only 3Yr
4815VAU  RHEL for HPC 2 Skts Compute Nodes Subscription 1Yr
4815VBU  RHEL for HPC 2 Skts Compute Nodes Subscription 3Yr
4815VBU  RHEL for HPC 4 Skts Compute Nodes Subscription 1Yr
4815VBU  RHEL for HPC 4 Skts Compute Nodes Subscription 3Yr
4815VEU  RHEL for HPC 2 Skts Head Node Prem RH Support 1Yr
4815VFU  RHEL for HPC 2 Skts Head Node Std RH Support 1Yr
4815VGU  RHEL for HPC 2 Skts Head Node Prem RH Support 3Yr
4815VHU  RHEL for HPC 2 Skts Head Node Std RH Support 3Yr
4815VJU  RHEL for HPC 4 Skts Head Node Prem RH Support 1Yr
4815VJU  RHEL for HPC 4 Skts Head Node Std RH Support 1Yr
4815VKU  RHEL for HPC 4 Skts Head Node Prem RH Support 3Yr
4815VLU  RHEL for HPC 4 Skts Head Node Std RH Support 3Yr
4815RLA  Red Hat Custom Offering
4815MYU  Red Hat Enterprise Linux 5 Media
4815M6U  Red Hat Enterprise Linux 6 Media
4815VQU  RHEV Server 1 Socket Std Subs Only 1Yr
4815VRU  RHEV Server 1 Socket Std Subs Only 3Yr
4815VSU  RHEV Server 1 Socket Prem Subs Only 1Yr
4815VSTU  RHEV Server 1 Socket Prem Subs Only 3Yr
4815VSUM  RHEV Server 1 Socket Std RH Support 1Yr
4815VNU  RHEV Server 1 Socket Std RH Support 3Yr
4815VOU  RHEV Server 1 Socket Prem RH Support 1Yr
4815VPU  RHEV Server 1 Socket Prem RH Support 3Yr

Pseudo Options
Option Description
90Y4026  RHEL for HPC 2 Skts Compute Nodes Subscription 1Yr
90Y4027  RHEL for HPC 2 Skts Compute Nodes Subscription 3Yr
90Y4028  RHEL for HPC 4 Skts Compute Nodes Subscription 1Yr
90Y4029  RHEL for HPC 4 Skts Compute Nodes Subscription 3Yr
90Y4030  RHEL for HPC 2 Skts Head Node Std RH Support 1Yr
90Y4031  RHEL for HPC 2 Skts Head Node Std RH Support 3Yr
90Y4032  RHEL for HPC 2 Skts Head Node Prem RH Support 1Yr
90Y4033  RHEL for HPC 2 Skts Head Node Prem RH Support 3Yr
90Y4034  RHEL for HPC 4 Skts Head Node Std RH Support 1Yr
90Y4035  RHEL for HPC 4 Skts Head Node Std RH Support 3Yr
90Y4036  RHEL for HPC 4 Skts Head Node Prem RH Support 1Yr
90Y4037  RHEL for HPC 4 Skts Head Node Prem RH Support 3Yr
90Y4038  Red Hat Enterprise Linux 5 Media
90Y4039  Red Hat Enterprise Linux 6 Media

Publications

No publications are shipped from IBM with this program.
Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

http://www.ibm.com/services/

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

http://www.ibm.com/services/continuity

For details on education offerings related to specific products, visit


Select your country, and then select the product as the category.

Technical information

Specified operating environment

Hardware requirements
IBM System x and BladeCenter servers that are listed on the IBM ServerProven® website

http://www-03.ibm.com/servers/eserver/serverproven/compat/us/

Software requirements
The program’s specifications and specified operating environment information may be found at

http://www.redhat.com

Compatibility
For detailed information about IBM and non-IBM devices, adapters, software, and network operating systems supported with System x servers, visit

http://www-03.ibm.com/servers/eserver/serverproven/compat/us/

Contact your IBM representative or IBM Business Partner, or refer to the IBM Sales Manual for information on the compatibility of hardware and software for System x servers. The Sales Manual is updated periodically as new features and options are announced that support these servers.

Limitations
Orders for these licensed programs require the purchase of a qualified IBM hardware offering.
Planning information

Cable orders
Not applicable.

Subscription only offerings
Red Hat Enterprise Linux, Red Hat Enterprise Virtualization Manager for Server, and Red Hat Network Satellite subscription offerings include an activation card which includes the unique product registration number that will be needed to access maintenance and upgrades from Red Hat. Once registered, clients can download images for directly from Red Hat.

CD/DVD media kits
Red Hat Enterprise Linux media kits are available. These kits contain all required CD/DVDs. Media kits are not available for the Red Hat Enterprise Linux Virtualization Manager for Servers, Red Hat Enterprise Linux Add-Ons, or Red Hat Network Satellite offerings.

Documentation
Installation manuals and documentation is available on the DVDs or CDs included in the media kits or via download from Red Hat.

Supplies
None

Security, auditability, and control
The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services
Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

Terms and conditions

Red Hat Linux Numbers

Licensed Programs: Yes

1 Non-IBM programs are available from IBM as distributed by the program supplier. IBM makes no representations or warranties regarding third-party products or services. Some software may differ from its retail version (if available) and may not include user manuals or all program functionality. Software license agreements may apply.

Remarketer terms and conditions

The announced products are available under the terms and conditions of the IBM Business Partner Agreement. These terms and conditions apply to IBM Business Partners who are approved for returns and price protection.
**Returns policy:** The announced products are not eligible for returns.

**Price protection:** The announced products are eligible for price protection.

For IBM Features/Options, IBM will pay price protection credits based on the lesser of:

- 45 days of net purchases (ships minus returns) from IBM (per IBM invoice dates) from the effective date of the price action.
- Calculated net on-hand inventory the day prior to the effective date of the price action.

**Remarketer reporting**

In order to qualify for IBM price protection, Business Partners must accurately report their Sales and Inventory positions via EDI weekly (every 7 days). Price protection credits will be processed within 30 calendar days of the price decrease announcement date by IBM.

IBM will calculate applicable net (LIST) price protection credits for those Business Partners who receive price protection. The applicable price protection credits will be based on calculating a new discounted price off the new net (LIST) price based on the Business Partners appropriate discount. The new (LIST) discounted price will be subtracted from the old (LIST) discounted price. This new difference will be multiplied times the number of units calculated by IBM that receive price protection credits.

IBM Business Partners requiring additional information about EDI reporting capability may contact the IBM Electronic Commerce Team (1-800-426-7272, option #8, then option #2). Business Partners are responsible for the accuracy of their reported sales and inventory positions.

**Order/Fulfillment**

Red Hat Enterprise Linux and Red Hat Enterprise Virtualization Manager for Servers subscriptions must be purchased only with a new IBM-branded Intel or AMD processor-based server, limited to the quantity necessary for the server being purchased.

A Red Hat Enterprise Linux and Red Hat Enterprise Virtualization Manager for Servers 'Subscription' Offerings may also be sold as a renewal subscription, but only if the customer has purchased the original Red Hat Enterprise Linux subscription from IBM.

A Red Hat Enterprise Linux 'Media Kit' Offering may be sold only if the customer is purchasing a Subscription offering from IBM.

Red Hat Enterprise Linux including HPC Head Node, Red Hat Virtualization Manager Server and Red Hat Network Satellite subscription offerings, must be sold only if the customer is purchasing or has purchased support.

Support must be obtained either from Red Hat or IBM. Specifically:

1. Support is available from Red Hat within parts described as either 'Red Hat Standard Support Subscriptions' or 'Red Hat Premium Support Subscriptions'. For more information about the support available with these Red Hat Enterprise Linux offerings see [http://www.redhat.com](http://www.redhat.com)

Customers may purchase either an IBM Remote Technical Support or IBM Support Line offering from IBM. Support is purchased separately and in addition to the Red Hat offerings that are subscription only. IBM support must be purchased with these new offerings that do not include Red Hat Support except
for Red Hat Enterprise Linux for HPC Compute nodes, where IBM Support is optional.

2. The hours of support available from IBM must be greater than or equal to the hours of support Red Hat provides to IBM to support our joint customers. The IBM support offering sold with 'Red Hat Premium Subscription' offerings must be 24 x 7. The IBM support offering sold with 'Red Hat Standard Subscriptions' can be 12 x 5 or 24 x 7.

3. If a customer has an IBM Support Line agreement from IBM that will include the server that will run Red Hat Enterprise Linux, an IBM support offering for that server need not be purchased again.

4. Due to the unique product code and product key, multiple customer orders cannot be bundled in one order to IBM.

5. A unique SAP order needs to be entered for each individual customer.

**Prices**

For all local charges, contact your IBM representative.

**Announcement countries**

All European, Middle Eastern, and African countries.

**Trademarks**

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Hypervisor is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, System x, BladeCenter and ServerProven are registered trademarks of IBM Corporation in the United States, other countries, or both.

Intel is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

**Terms of use**

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Reference to other products in this announcement does not necessarily imply those products are announced, or intend to be announced, in your country. Additional terms of use are located at


For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/