ADD-ONS FOR RED HAT ENTERPRISE LINUX

WORKLOAD AND MISSION-CRITICAL PLATFORM ENHANCEMENTS

In conjunction with Red Hat® Enterprise Linux®, Red Hat offers a portfolio of add-ons to extend the features of your Red Hat Enterprise Linux subscription. Add-ons to Red Hat Enterprise Linux tailor your application environment to suit your particular computing requirements. With increased flexibility and choice, customers can deploy what they need, when they need it.

ADD-ON OPTIONS FOR AVAILABILITY MANAGEMENT

High Availability Add-On

Red Hat's High Availability Add-On provides on-demand failover services between nodes within a cluster, making applications highly available. The High Availability Add-On supports up to 16 nodes and may be configured for most applications that use customizable agents, as well as

RED HAT® ENTERPRISE LINUX®
+High Availability

for virtual guests. The High Availability Add-On also includes failover support for off-the-shelf applications like Apache, MySQL, and PostgreSQL.

When using the High Availability Add-On, a highly available service can fail over from one node to another with no apparent interruption to cluster clients. The High Availability Add-On also ensures data integrity when one cluster node takes over control of a service from another cluster node. It achieves this by promptly evicting nodes from the cluster that are deemed to be faulty using a method called "fencing" that prevents data corruption.

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.

The Resilient Storage Add-On provides numerous file system capabilities for improving resiliency to system failure. This add-on includes the Global File System 2 (GFS2) for supporting concurrent access; a Portable Operating System Interface for UNIX (POSIX)-compliant file system across 16 nodes; and Clustered Samba (a clustered common Internet file system), or CIFS (for concurrent files shares in a Microsoft Windows environment).

When using the Resilient Storage Add-On, a single version of all files in a cluster are visible to all nodes within that cluster. Each server in a cluster has direct access to a shared block device over a local storage area network (SAN) of up to 100 terabytes. Data and cache consistency is ensured using a cluster-wide locking mechanism called distributed lock manager (DLM) to arbitrate access to the storage. Each member of the cluster thus has direct access to the same storage device, and all cluster nodes access the same set of files.

Network Load Balancer Add-On

Red Hat's Network 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 Network Load Balancer Add-On allows you to quickly add or remove servers or change balancing algorithms using a browser-based graphical user interface (GUI).

The Network Load Balancer Add-On provides support for transmission control protocol (TCP) and user datagram protocol (UDP) load balancing independent of applications. It is composed of two major components: the Linux Virtual Server (LVS) and the Piranha Configuration Tool, a GUI-based management tool. The Network Load Balancer Add-On can be configured across two nodes in an active/passive configuration to provide redundant traffic management services.

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 between 16 terabytes and 100 terabytes in size. You can manage these large data stores using advanced features such as 64-bit journaling and advanced locking algorithms.

The Scalable File System Add-On uses the XFS® file system, which in addition to supporting very large files and file systems on a single host, also performs well on smaller systems running multi-threaded parallel I/O workloads.

High Performance Network Add-On

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

The High Performance Network Add-On bypasses system and kernel calls to TCP (iWARP) or Infiniband (traditional RDMA) and places data directly into remote system memory with less CPU overhead. Customers can leverage converged Ethernet network designs to consolidate data and storage networks while reducing their cabling infrastructure, port counts, and associated costs.

ADD-ON OPTIONS FOR MANAGEMENT

Smart Management Add-On

Red Hat's Smart Management Add-On, when coupled with Red Hat Network Satellite, allows you to manage the complete lifecycle of your Red Hat Enterprise Linux systems.

The Smart Management Add-On includes Red Hat Network Satellite management and provisioning modules that allow you to provision, patch, configure, and fully control your Red Hat Enterprise Linux development, test, and production systems. You can also purchase an optional Red Hat Network Monitoring module. By proactively automating routine tasks such as patch management, you'll have time to concentrate on other, higher value-added tasks.

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 for Red Hat Enterprise Linux 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 a Red Hat Enterprise Linux update for 18 months and delivers overlapping release support to give enterprise customers more flexibility.

Red Hat Enterprise Linux add-ons are another example of Red Hat's commitment to engage with customers and our large ecosystem of partners to deliver more flexible solutions to meet the needs of all IT environments.

ADD-ON AVAILABILITY MATRIX

Add-on	Availability
High Availability	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications
Resilient Storage	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications, Red Hat Enterprise Linux for HPC Head Node
Network Load Balancer	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications
Scalable File System	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications, Red Hat Enterprise Linux for HPC Head Node, Red Hat Enterprise Linux for HPC Compute Node
High Performance Network	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications, Red Hat Enterprise Linux for HPC Head Node
Smart Management	Available on all versions of Red Hat Enterprise Linux
Extended Update Support	Red Hat Enterprise Linux Server, Red Hat Enterprise Linux Server for SAP applications, Red Hat Enterprise Linux for IBM System z, Red Hat Enterprise Linux for IBM POWER

For more information on these Red Hat Enterprise Linux add-on offerings, visit redhat.com/rhel/add-ons.

SALES AND INQUIRIES

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 4329 7300
www.latam.redhat.com
info-latam@redhat.com

---

www.redhat.com
#4193847_1010