



RED HAT APPLICATION STACK

WHAT IS IT?

Red Hat Application Stack is a fully integrated open source stack. Simplified, delivered, and supported by Red Hat, the open source leader. The Application Stack is delivered in a clear and simple subscription model that includes software, support, updates, and upgrades—all delivered online through Red Hat Network.

WHAT DOES IT DO?

The Red Hat Application Stack is a complete application infrastructure solution that dramatically reduces the cost of deploying Web and Service-Oriented Architecture (SOA) based applications. It includes everything you need to run standard Web and enterprise applications based on Java, LAMP or Linux standards. Sold as per-server subscriptions (just like Red Hat Enterprise Linux), the Application Stack can be purchased with any of three levels of support: from basic to 24x7 premium support for mission-critical environments.

WHY SHOULD I CARE?

The Red Hat Application Stack is a low-cost enterprise solution that is delivered in a subscription and supported by the leading open source vendor. The Application Stack allows users to standardize their Web application platform, which reduces application management costs and makes the most of open source technologies. The Red Hat Application Stack reduces the management overhead required to keep application infrastructure in sync across an organization, allowing companies to refocus IT resources on more business-critical activities. With no client-access licenses, upgrade charges, or separate maintenance fees, the reasons to move to a standard application platform are more compelling than ever.

OVERVIEW

Red Hat is the leading provider of Linux solutions for the enterprise. In June 2006, Red Hat acquired JBoss, the leading supplier of open source middleware. The Red Hat Application Stack is the first fully integrated open source stack. Simplified, delivered, and supported by Red Hat, the open source leader. The Red Hat Application Stack includes:

- **JBoss Application Server:** the #1 Java-based runtime for web and enterprise applications, which includes Apache Tomcat.
- **JBoss Hibernate:** the leading technology for object/relational mapping and persistence.
- **Red Hat Enterprise Linux:** the #1 open source Linux platform for enterprise computing.
- **Open source databases:** the world's most popular open source databases, MySQL and PostgreSQL.
- **Web Server:** Apache HTTP Server, the most popular web server on the Internet, and standard programming languages PHP and Perl.

Red Hat Application Stack is sold as a year-long subscription and includes support for the certified software, updates, and upgrades. All delivered online through Red Hat Network.

Customers also have access to JBoss Operations Network (JBoss ON), at no additional charge. This is an advanced and integrated management platform for JBoss middleware.

JBoss APPLICATION SERVER

JBoss Application Server (AS) is the most widely used Java application server on the market. A J2EE certified platform for developing and deploying enterprise Java applications, Web applications, and portals, JBoss AS provides J2EE services including EJB, JSP/Servlets, JMS, and Web Services with plug-and-play capability. JBoss AS powers mission-critical applications that require superior performance and scalability. With its revolutionary SOA, JBoss AS ensures that applications are developed, deployed, integrated, and managed in a consistent manner. JBoss AS not only offers the performance and reliability expected from an industrial-strength application platform, it enables you to scale technically and economically as well. By combining a robust yet flexible open source architecture at a low cost, JBoss AS has quickly become the most popular middleware solution for developers, independent software vendors (ISVs), and corporate enterprises.

JBoss HIBERNATE

Hibernate is the leading object/relational mapping (ORM) solution for Java environments. Hibernate directly addresses ORM complexities by providing the ability to map an object model's data representation to a relational data model and corresponding database schema. Hibernate not only provides mapping from Java classes to database tables and from Java data types to SQL data types, but also provides data query and retrieval facilities that significantly reduce development time. Hibernate relieves enterprise application developers from common data persistence programming tasks by eliminating the need for manual, hand-crafted data processing using SQL and JDBC.

RED HAT ENTERPRISE LINUX

The Red Hat Enterprise Linux family provides the industry's most comprehensive suite of Linux solutions designed for mission-critical enterprise computing and certified by top enterprise software vendors. Red Hat Enterprise Linux delivers the highest level of reliability and value, coupling the innovation of open source technology and the stability of a true enterprise-class platform.

Enterprise Linux delivers the features required for commercial deployments, including:

- Support for a wide range of ISV applications.
- Certification on multiple architectures and leading hardware OEM platforms, including Bull, Dell®, Fujitsu®, Hitachi®, HP®, and IBM®.
- Exceptional performance, scalability, and availability, with audited industry benchmarks.

DATABASES

The Red Hat Application Stack supports standard database connectivity, providing complete database flexibility and choice of applications. The Application stack includes the most popular open source databases, MySQL and PostgreSQL, and is also compatible with most industry-leading databases, including Ingres, IBM DB2, Oracle, and Sybase.

MySQL is designed for enterprise organizations delivering business-critical database applications. It gives corporate developers and ISVs an array of new enterprise features to make them more productive in developing, deploying, and managing industrial strength applications. MySQL combines enterprise-grade reliability and performance with advanced SQL 2003 features, making it the most cost-effective database solution for business-critical applications.

With more than 15 years of active development and a proven architecture with a strong reputation for reliability, data integrity, and correctness, PostgreSQL is a powerful, open source relational database system.

WEB SERVER

The Red Hat Application Stack also includes the latest certified versions of common open source web application technologies. Apache HTTP Server, the industry standard for web servers, is included for use in both LAMP- and Java-based application platforms. The Application Stack also includes the common programming languages PHP and Perl.

MANAGING RED HAT APPLICATION STACK

The Red Hat Application Stack is delivered seamlessly through Red Hat Network, an easy-to-use systems management platform for your Linux infrastructure. Red Hat Network provides simple tools to efficiently manage the life-cycle of systems on your network, including provisioning new systems, managing updates and configuration changes, monitoring system performance, and eventually re-deploying the systems for a new purpose. All Red Hat Application Stack subscriptions include a Red Hat Network Update Module, and can be upgraded with the Management and/or Provisioning Module to increase the management capabilities.

Red Hat Application Stack subscribers also have access to JBoss Operations Network, which allows you to auto-discover and inventory, administer, control, monitor, and automatically update JBoss Application Server and JBoss Hibernate.

PRODUCT DETAILS

The Red Hat Application Stack is delivered on an annual subscription basis with one year of maintenance and support services, ensuring your business IT deployments stay reliable and secure. Three support levels are available:

- **Basic Edition:** Provides one year of Red Hat Network maintenance services, including updates and upgrades.
- **Standard Edition:** Provides one year of product support, Monday-Friday, 9 a.m.–5 p.m., (9 a.m.–9 p.m. in North America) with four-hour response, unlimited incidents.
- **Premium Edition:** Provides Basic Edition plus one year of product support, 24x7 with one-hour response, unlimited incidents.

CONSULTING

Red Hat and partners offer a full range of consulting services, from assessment to migration, implementation, and infrastructure management, all delivered by experienced and certified Red Hat and JBoss professionals.

TRAINING

Industry acclaimed. Performance-based. Red Hat offers the most current and accurate hands-on Red Hat and JBoss training courses and the most respected certifications in the industry.

Courses relating to the Red Hat Application Stack include:

- RH133 Red Hat Linux System Administration
- RH253 Red Hat Linux Networking and Security Administration
- RH300 Red Hat Linux RHCE Rapid Track Course
- RH401 Red Hat Enterprise Deployment and Systems Management
- RHD161 JBoss and EJB3 for Java Developers
- RHD163 JBoss for Web Developers
- RH336 JBoss for Administrators
- RHD261 JBoss for Advanced J2EE Developers
- RHD167 Hibernate Essentials
- RHD267 Hibernate Advanced

Please visit <https://www.redhat.com/training/> for information on classes and current training schedules.

COMPLETE YOUR RED HAT SOLUTION



PROFESSIONAL SERVICES

A complete range of open source services to help companies plan, implement, and extend the value of Red Hat's open source solutions.

- **Global Learning Services:** Industry-acclaimed, performance-based training courses and certifications
- **Global Professional Services:** A full set of consulting services from assessment to implementation, and infrastructure management
- **Global Support Services:** Around-the-clock, global support from the most trusted, experienced, and knowledgeable technical support staff



RED HAT APPLICATIONS

Extend the benefits of open source beyond the operating system.

- **Red Hat Cluster Suite**
- **Red Hat Developer Suite**
- **Red Hat Content Management System**
- **Red Hat Portal Server**

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