WildFly

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WildFly,[1] formerly known as **JBoss AS**, or simply **JBoss,** is an application server authored by JBoss, now developed by Red Hat. WildFly is written in Java, and implements the Java Platform, Enterprise Edition (Java EE) specification. It runs on multiple platforms.

WildFly is free and open-source software, subject to the requirements of the GNU Lesser General Public License (LGPL), version 2.1.

On 20 November 2014, JBoss Application Server was renamed WildFly. The JBoss Community and other Red Hat JBoss products like JBoss Enterprise Application Platform were not renamed.[2]

	WildFly
Original author(s)	JBoss
Developer(s)	Red Hat
Stable release	10.1 / August 19, 2016
Repository	github.com/wildfly/wildfly (https://github.com/wildfly/wildfly)
Written in	Java
Operating system	Cross-platform
Type	Application server
License	GNU Lesser General Public License
Website	www.wildfly.org (http://www.wildfly.org/)

Contents

Origin

In 1999, Marc Fleury started a free software project named *EJB-OSS* (stands for *Enterprise Java Bean Open Source Software*) implementing the EJB API from J2EE (Java 2 Enterprise Edition). Sun Microsystems asked the project to stop using the trademarked *EJB* within its name. *EJB-OSS* was then renamed to *JBOSS*, then *JBoss* later.[3]

Versions

Product version	Java EE version	Release to web	Description
0.0.4	?	24 February 1999	Early access release
2.2	?	?	
2.4	?	?	Integration with Tomcat 3.2
3.0 "Rabbit Hole"	?	31 May 2002	
3.2	?	2 June 2003	
4.0	1.4	20 September 2004	v4.0 features an embedded Apache Tomcat 5.5 servlet container, and supports any Java Virtual Machine (JVM) versions 1.4 through 1.6.
4.2	1.4	11 May 2007	Deploys Enterprise JavaBeans 3.0 by default. It requires the Java Development Kit version 5, and includes Tomcat 5.5.
5.1	5.0	23 May 2009	A minor update of the major release JBoss AS 5.0, which was in development for at least three years and was built on top of a new JBoss microcontainer.[4] JBoss AS 5.1 contains a preview of some elements from the Java EE 6 specification.[5]
6.0[6]	6.0	28 December 2010	Although JBoss AS 6 does support the full Java EE 6 stack,[7] Red Hat elected not to certify it with Oracle[8][9] It is, however, officially certified to support the Java EE 6 Web Profile.
7.0[10] "Lightning"	6.0	12 July 2011	The Java EE profile is only partially implemented: It includes MDBs, but listening to JMS destinations is not supported.[11] It is, however, certified for the Web Profile. The software code has been completely rewritten for JBoss AS 7.[12][13] Major changes visible to the user are the inability to define resources like JMS destinations and datasources inside archives (war/ear),[14][15] the way datasources are defined,[16][17] a much smaller size (less than half of JBoss AS 6)[10] and a 10-fold reduction in startup time.[18]
7.1	6.0	16 February 2012	Red Hat implemented the remaining parts of the EE spec, and this version was certified for the EE full profile.[19]
8.0.0	7.0	20 November 2014[20]	JBoss renamed to WildFly. Undertow replaced JBossWeb as web container
9.0.0 "Kenny"	7.0	2 July 2015[20]	WildFly/WildFly Core split.
10.0.0	7.0	9 February 2016[20]	Java 8+ support (Java 7 support discontinued), ActiveMQ Artemis, HA Singleton Deployments, HA Singleton Message Driven Beans (MDBs) and MDB Delivery Groups, Stateless Session Bean and Message Driven Bean Automatic Pool Sizing, Hibernate 5
10.1.0	7.0	19 August 2016[20]	

Upgrades to newer versions of WildFly or JBoss EAP may be handled using the JBoss Windup migration tool[21].

Product features

- Clustering
- Deployment API
- Distributed caching (using Infinispan, a standalone project)
- Distributed deployment
- Enterprise JavaBeans versions 3 and 2.1
- Failover (including Web and EJB sessions)
- Hibernate integration (for persistence programming; Java Persistence API or JPA)
- Java Authentication and Authorization Service (JAAS)
- Java EE Connector Architecture (JCA) integration
- Java Management Extensions
- Java Message Service (JMS) integration
- Java Naming and Directory Interface (JNDI)
- Java Transaction API (JTA)
- Java Authorization Contract for Containers (JACC) integration
- JavaMail
- Java Server Faces 2.2 (Mojarra)
- Java Server Pages (JSP) / Java Servlet 2.1/2.5 (Tomcat)
- JBossWS (JBoss Web Services) for Java EE web services like JAX-WS
- JDBC
- Load balancing
- Management API
- OSGi framework
- RMI-IIOP (JacORB, contraction of Java and CORBA)
- SOAP with Attachments API for Java (SAAJ)
- Teiid data virtualization system
- WebSockets

Licensing and pricing

JBoss EAP itself is open source, but Red Hat charges to provide a support subscription for JBoss Enterprise Middleware. Before November 2010 JBoss was licensed as annual subscription in bundles of 4 and 32 CPU sockets. As of November 2010 the licensing changed and all cores on the system are now counted. The core bundles licensing is available for 16 and 64 cores.[22]

See also

- Comparison of application servers
- JBoss Enterprise Application Platform
- List of JBoss software
- Apache TomEE
- Apache Geronimo
- IBM WebSphere Application Server
- JOnAS application server
- Oracle WebLogic Server
- GlassFish
- Payara Server

Notes

1. "JBoss Application Server has a new name... WildFly". Wildfly. Retrieved 2013-04-23.
2. "Frequently Asked Questions". WildFly. Retrieved 2013-04-23.
3. Jamae & Johnson 2010, p. 4.
4. "JBossAS 5.0.0.GA Released". 2008-12-05.

5. "JBoss 5.1.0.GA Release Notes". 2009-05-23.
6. "Home / JBoss / 6.0.0.Final". JBoss Community. 2010-12-28.
7. http://community.jboss.org/thread/160813
8. Dimitris Andreadis (2011-01-05). "Introducing the Brand New JBoss AS 6.0!". Retrieved 2015-05-27.
9. http://community.jboss.org/message/574581
10. "JBoss Application Server downloads".
11. http://community.jboss.org/thread/169508
12. http://community.jboss.org/message/595453
13. Jason Greene (2011-07-25). "Why is JBoss AS 7 so fast?". Retrieved 2015-05-27.
14. http://community.jboss.org/message/606449
15. http://community.jboss.org/wiki/JBossAS7VsAS6
16. http://community.jboss.org/wiki/DataSourceConfigurationInAS7
17. How to create and manage datasources in AS7 (http://www.javalinux.it/wordpress/2011/07/14/how-to-create-an-manag e-datasources-in-as7/)
18. JBoss Application Server 7 (http://www.jboss.org/as7.html).
19. "JBoss AS 7.1.0.Final "Thunder" released - Java EE 6 Full Profile certified!". Retrieved 2015-05-27.
20. "Downloads · WildFly".
21. "JBoss Windup migration tool".
22. "JBOSS NA Channel SKUs: Production Subscription SKUs". Red Hat.

References

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- Stark, Scott; Fleury, Marc; Richards, Norman (April 30, 2005). "JBoss 4.0 The Official Guide". Sams. ISBN 978-0-67232648-6. 648 pp.

External links

- JBoss application server website (http://jboss.org/jbossas/)
- JBoss Community Projects (http://jboss.org/)
- WildFly and JBoss tutorials (http://www.mastertheboss.com/)
- Java Application Server Guide (Mac OS X Developer Library) (http://developer.apple.com/library/mac/#documentation/WebObjects/Conceptual/J2EE_JavaAppServerGuide/Introduction/Introduction.html)
- JBoss Wiki (http://community.jboss.org/en/jbossas)

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Categories: Cross-platform software │ Free software programmed in Java (programming language) │ Java enterprise platform │ Portal software │ Red Hat software │ Web server software programmed in Java