

Red Hat JBoss Web Server

Build, manage, and safeguard modern web applications and infrastructure

Product overview

Whether you are looking to build a simple Java application server, an enterprise web server, or an entire enterprise application infrastructure, you likely have too much to do with limited time and resources. How can you address growing demand, but avoid costly complexity? Red Hat® JBoss® Web Server simplifies the development and management of open source-based web application environments for enterprises of any size, incorporating security-focused, open-source technologies for web application development, deployment, and maintenance.

By merging open source technologies with enterprise capabilities, JBoss Web Server provides a single solution for large-scale websites and lightweight Java web applications. It includes a certified, production-ready version of Apache Tomcat that is delivered through an affordable subscription model by experts in enterprise open source middleware. A JBoss Web Server subscription includes support for Hibernate®, a popular choice for object-relational mapping and persistence.

Red Hat leads and contributes to popular open-source projects, using code developed in the community to create JBoss Web Server, which is backed with a multiyear product support life cycle. Production-ready versions of these components, combined with enterprise features for operational management and security tracking, give IT enterprises a stable and security-focused web application infrastructure with long-term reliability.

Benefits

JBoss Web Server is a single solution for web applications, complete with all the software and common connectors you need for typical lightweight Java application deployment. It includes stable versions of 100% open source, production-ready technologies that have been certified and tested by Red Hat and are backed by a long-term enterprise product life cycle.

Table 1. JBoss Web Server benefits

Benefits	Description
Reduced complexity	Simplify your use of popular open source software and avoid integration and version conflicts. A single subscription includes certified, integrated software with everything you need to build and maintain simple web applications.
Stabilized life cycle	Enjoy stable versions of popular open source software backed with long-term, enterprise product life cycles. Each release benefits from predictable updates that include defect fixes and nonintrusive features. JBoss Web Server maintains application compatibility for up to 5 years.

Benefits	Description
Simplified management	Each subscription includes access to Red Hat enterprise IT operations portal for software management, including update and alert notifications. Manage configurations, inventory your applications, and deploy updates across your business within seconds.
Security	Take advantage of the dedicated security response team at Red Hat, who identifies, classifies, and tracks security issues, outlines affected use cases, and delivers critical security updates.
Support	Red Hat has over 10 years of enterprise expertise leading, shipping, maintaining, and supporting Apache software. Red Hat's technical staff works together to offer award-winning enterprise open source support. ¹

Deployment options

JBoss Web Server is a flexible solution for a wide variety of application infrastructure uses. With a single subscription, components can be deployed separately or together to support a variety of web application types, including:

Simple Java application server

Take advantage of the popular Apache Tomcat server to build, deploy, and manage simple Java applications and services in less time. Add subscriptions for popular open source frameworks like JBoss Hibernate to efficiently expand your application's capabilities.

Enterprise open source application infrastructure

Combine the capabilities of JBoss Web Server components or add Java Platform Enterprise Edition (Java/Jakarta EE) capabilities with additional Red Hat JBoss Enterprise Application Platform solutions for complete coverage of any Java application workload in your enterprise.

Technical specifications

Table 2. JBoss Web Server

Component	Description
Apache Tomcat	A servlet container in accordance with the Java Servlet Specification. JBoss Web Server contains Apache Tomcat.
Apache Tomcat Native Library	A Tomcat library, which improves Tomcat scalability, performance, and integration with native server technologies.

¹ Red Hat blog. "Red Hat Customer Portal named as a Best Support Website of 2023 by the Association of Support Professionals." 20 Sept. 2023.

Component	Description
Tomcat-vault extension	An extension for the JBoss Web Server used for safeguarding storing passwords and other sensitive information used by a JBoss Web Server.
Mod_cluster library	A library that allows communication between Apache Tomcat and the Apache HTTP Server's mod_proxy_cluster module. This allows the Apache HTTP Server to be used as a load balancer for JBoss Web Server.
Hibernate supported framework	Hibernate provides straightforward generation, testing, and prototyping of your Hibernate or Java Persistence API (JPA) mapped projects. Use it to run queries, browse mappings, and generate code for your data projects.

Table 3. Platform and standards support

JBoss Web Server	Apache Tomcat	Operating system	Java Virtual Machine
6.0	10.1.8	RHEL 9 x86_64	Red Hat build of OpenJDK 11
		RHEL 8 x86_64	Red Hat build of OpenJDK 17
		Windows 2019 x86_64	OracleJDK 11
			Oracle JDK 17
5.7	9.0.62	RHEL 9 x86_64	Red Hat build of OpenJDK 1.8
		RHEL 8 x86_64	Red Hat build of OpenJDK 11
		RHEL 7 x86_64	Red Hat build of OpenJDK 17
		Windows 2019	Oracle JDK 1.8
		Windows 2016	OracleJDK 11
		Oracle JDK 17	

Subscription benefits

Red Hat provides software subscriptions to JBoss Web Server that offers users ongoing value throughout the entire subscription term.

Features and benefits of the subscription include:

- ▶ **Predictability:** Subscriptions are offered on an annual basis and include access to new versions at no additional cost. There are no large upfront license fees or hidden expenses.
- ▶ **Integrated and certified enterprise platforms:** Access enterprise open source middleware platforms, in source and binary form, along with enterprise product documentation specific to each product release.
- ▶ **Upgrades and updates:** Regular product updates provide enhancements, new features, new platform certifications, and access to the latest defect and security fixes.
- ▶ **Security response:** Subscriptions come with Red Hat's industry-recognized security response process to help customers proactively address potential security issues in their environment.
- ▶ **Long-term stability:** Each release has a defined multiyear product life cycle with strict update policies that maintain application stability and compatibility for the long term.
- ▶ **World-class technical support:** Unlimited incident support by open source middleware experts can include 24x7 coverage, with a 1-hour response for critical issues.
- ▶ **Red Hat Customer Portal access:** A single portal grants access to all of the benefits of a Red Hat subscription such as enterprise software delivery, product updates, and critical issue notifications, knowledgebase access, and case management.
- ▶ **Partner certifications:** Deploy solutions with confidence that your enterprise middleware is fully certified by leading Red Hat independent software vendor (ISV) partners.
- ▶ **Legal assurance:** [Open Source Assurance](#) is a Red Hat program that safeguards customers who are developing and deploying open source solutions from legal harm.

Subscription sizing

Subscriptions to JBoss Web Server are provided in a virtualization-friendly model, consumed in increments of 16- and 64- processor core bands, backed by a choice of enterprise service levels that support any type of critical deployment.

Key features of the consumption model include:

- ▶ Processor cores that can be virtual or physical, making them ideally suited for the growing trend toward virtualizing middleware workloads.
- ▶ The ability to choose the types of processor cores that make sense for their environment. Different types of processor cores are treated the same.
- ▶ Technical support covering issues across the entire application life cycle, from development to deployment management, across any supported environment.

Training and assistance

Red Hat and its certified partners offer a range of services for JBoss Web Server, including:

- ▶ **Developer support:** Expert advice spanning architecture, design, configuration, optimization, and tuning recommendations.
- ▶ **Red Hat Technical Account Management:** In addition to delivering standard and premium support options, Red Hat offers support services with enhanced options for customers who desire the deepest technical relationship with Red Hat.

- ▶ **Red Hat Training and Certification:** A full curriculum of courses focusing on Red Hat JBoss Middleware solutions for both developers and operations roles.
- ▶ **Red Hat Consulting:** A wide range of consulting services, from small deployments to complete design, deployment, integration, migration, and management services.

Get started

Try [Red Hat JBoss Web Server](#) now in the developer sandbox and explore the many resources available for JBoss Web Server, or to get started contact your Red Hat account manager.



About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. [A trusted adviser to the Fortune 500](#), Red Hat provides [award-winning](#) support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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