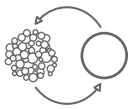
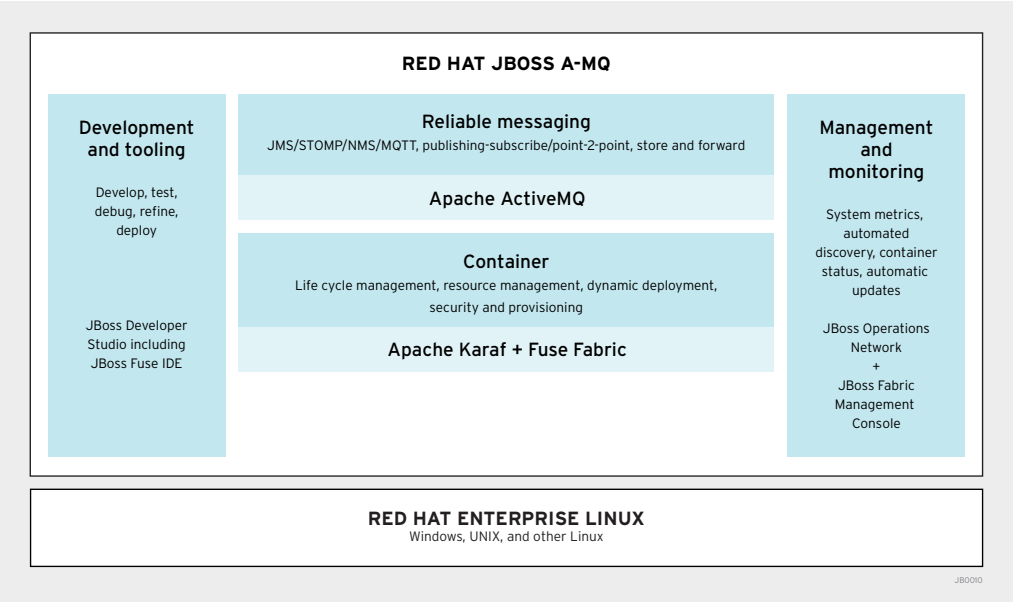
RED HAT JBOSS A-MQ

TECHNOLOGY OVERVIEW



A SMALL-FOOTPRINT, HIGH-PERFORMANCE, OPEN SOURCE MESSAGING PLATFORM

Red Hat® JBoss® A-MQ is a comprehensive, standards-based messaging platform that can be configured with any combination of components for a customizable IT footprint:



KEY RED HAT JBOSS A-MQ FEATURES INCLUDE:

- **Reliable messaging** – The foundation of Red Hat JBoss A-MQ is a high-performance message broker that deploys with a very small footprint, and does not require a JBoss broker on both ends of a connection. This messaging layer is based on Apache ActiveMQ.
- **Standards-based platform** – Red Hat JBoss A-MQ strictly adheres to open standards including, JMS 1.1, TCP, SSL, UDP, STOMP, NMS, AMQP 1.0 (tech preview only), MQTT, multicast transport protocols, and many others. This way, it requires minimal proprietary knowledge, leverages a large development community, and reduces training costs.
- **Tooling** – Red Hat JBoss A-MQ is supported by tooling including JBoss Developer Studio (includes Fuse IDE) for development, JBoss Operations Network for monitoring, and Fabric Management Console for management.

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KEY FEATURES AND BENEFITS

MESSAGE BROKER

FEATURE	BENEFIT
Cross-language clients Providing connectivity from client programs written in languages other than Java	**Supports many development environments** Allows native connectivity from applications written in non-Java languages like C or C++
Pluggable transports Multiple transport protocols for exchanging data between the broker and client, or between multiple brokers	**Supports many networking environment** Flexibility to meet the demands of different networking environments and use cases
Flexible persistence Supports a variety of persistence options, from no persistence at all, to file system persistence, to using a database via JDBC	**Balances reliability and performance** Allows the user to maximize reliability and performance for individual applications
REST API A technology-neutral, web-based API to the message broker service	**Simplified integration** Easy integration with RESTful web services
Ajax support Support for streaming to web browsers using pure DHTML	**Increased integration options** Allows web developers to use the browser as a messaging client
JMS Streams for very large messages When sending extremely large messages, JMS streams eliminate the bottleneck that would occur as the JMS client tries to keep an entire 1+ GB message in memory	**Supports application scalability** Allows the messaging platform to deliver truly massive files (many GBs) across the network in a reliable manner
Message compression GZIP compression allows highly verbose messages to be compressed	**Supports application scalability** Message compression helps organizations efficiently transport large amounts of data encapsulated in SOAP and other XML formats

MANAGEMENT	
FEATURE	BENEFIT
Configuration profiles Method of defining a configuration of a broker node; changes and updates to profiles are applied across all nodes	**Simplifies management of uniquely configured nodes** Guaranteed consistency between identically configured nodes and simplified maintenance
Security framework Access control to the broker through JAAS, SSL encryption, and plug-in points to support custom and third-party authentication providers, firewalls, proxy servers, HTTP(s) tunneling, and DMZ products	**Simplified security administration** Can use a single security framework

RED HAT JBOSS A-MQ FOR THE REAL-TIME ENTERPRISE

Red Hat JBoss A-MQ is a high-performance, cost-effective messaging platform that reliably delivers information safely and securely with a small IT footprint. The industry-standard integration patterns make it easy to rapidly connect applications and systems and to deploy quickly.

With the cost-effective and flexible integration platform, businesses can finally have integration everywhere.

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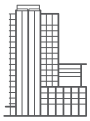

ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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