

DATASHEET

# EASE INTO THE CLOUD WITH JBoss ENTERPRISE APPLICATION PLATFORM 6

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**EXECUTIVE SUMMARY** Cloud computing has a lot of appeal, from autoscaling to lower costs, and it's all just a few clicks away.

Thus, the big question is not “why cloud?” but rather “how cloud?” Like many shifts in IT, cloud computing is a journey—one that may take years to complete, and one that depends on your definition of “complete.” In truth, some applications’ technology will never be truly considered final.

Red Hat has been working on the answer to getting customers easily to the cloud for a long time and understands that application platforms need to span from your existing on-premise world into the cloud, whether it's your cloud or someone else's cloud. It's not really about using one platform here and a different one there. It's about one platform to get you wherever you want to go, on your timetable.

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## INTRODUCING JBoss ENTERPRISE APPLICATION PLATFORM 6

More than two years ago, the best minds in the JBoss Community began to shape what a next-generation application platform would look like—a single platform for any deployment preference.

They also determined that in order for an enterprise to be successful, that platform needed to promote an unparalleled level of IT productivity. And they understood that that productivity should not only benefit the developers who work with JBoss, it should benefit everyone in the application lifecycle.

The result of these understandings is JBoss Enterprise Application Platform 6, the latest update to the industry-leading platform for next-generation Java applications. Based on the highly successful JBoss Application Server 7.1, a JBoss Community project, and the latest Java EE6 standards, JBoss Enterprise Application Platform 6 is the platform to help enterprises ease into the cloud.

**THE WEIGHT-TO-  
FEATURE GAP HAS  
BEEN CLOSED DUE  
TO THE FOLLOWING  
INNOVATIONS:**

**Concurrent service loading.** By enabling services to start in parallel and by leveraging multi-core hardware, JBoss Enterprise Application Platform 6 enables startup times that are 10x faster than startup times for its previous version.

**Aggressive memory management.** Capabilities such as metadata indexing and letting non-essential services remain passive provide an extremely lightweight server footprint.

**Modular core.** True application isolation is achieved by hiding server implementation classes and loading only the classes your application needs.

## HOW TO EASE INTO THE CLOUD

### Step 1: Select the right architecture.

For years, enterprises have had to choose either lightweight containers, such as Tomcat, or a fully loaded and certified Java EE application server.

The rise of virtualization and cloud computing have made lightweight containers even more compelling. And while it was tough to support multiple platforms, the costs and weight of the full application servers outweighed the benefits of a single, enterprise-wide platform.

JBoss Enterprise Application Platform has long been considered sleek and slim compared to other leading Java EE application platforms. And with JBoss Enterprise Application Platform 6, Red Hat has taken lightweight to an entirely new level. That's why JBoss technology was the first certified Java EE 6 application server deployed on a Platform-as-a-Service (PaaS) solution with Red Hat OpenShift.

### Step 2: Get to work quickly.

One of the great attributes of cloud computing is how easy it is to get started. With PaaS solutions such as Red Hat OpenShift, you can set up a server instance in seconds and start developing an application. But, no matter where your instance is running, you want to make sure that the frameworks and developer tools used are geared toward getting the job done quickly and effectively.

Developer productivity has always been a major focus for JBoss, and it is why IDC found that JBoss Enterprise Middleware customers can develop 51% more applications per year compared to their previous application platforms<sup>1</sup>. JBoss Enterprise Application Platform 6 further enhances developer productivity by providing a standards-based, world-class set of tools and development capabilities including:

- **Java EE 6**—The latest version of the enterprise Java specifications provides a more loosely coupled development model.
- **World-class JBoss technology components**—Updated versions of popular components and projects, including Hibernate, HornetQ, and Infinispan.
- **Testable by design**—Support for the award-winning Arquillian project that enables testing within the application container.
- **Toolchain integration**—Support for other popular tooling capabilities such as Maven and Hudson.

<sup>1</sup> IDC: Business Value of JBoss Enterprise Application Platform. <http://engage.jboss.com/forms/jboss-eap-business-value>

## Step 3: Simplify the other 85%.

A more efficient development process is critical as lines of business are demanding new applications to support changing business requirements. Production support and maintenance account for more than 85% of an application's lifecycle and often the greatest share of the applications cost.

Unfortunately, many of the administration and management tools of other application platforms are inflexible, forcing enterprises into difficult architectural decisions. Red Hat's goal was to enable the enterprise to manage as it wanted and needed to, even turning Red Hat's standard features off in favor of its own solutions when necessary. Among our new features for the other 85% are:

- **Elegant administration:** A centralized configuration structure, Java, HTTP management APIs, GUI-based management console, and command-line interface enable administrators multiple ways to manage servers.
- **Domain management:** Manage many servers as one and support rolling deployment within the domain.
- **JBoss managed:** A newly updated set of capabilities are provided through JBoss Operations Network, including multi-domain monitoring, application provisioning, and configuration management.

The advent of cloud computing provides enterprises with new opportunities to streamline their application development and management practices. With an updated architecture and new features, JBoss Enterprise Application Platform is designed for use on-premise or in cloud environments. This single platform also enables enterprises to adopt their own timetables for easing their existing and future applications into the cloud.

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