

RED HAT APPLICATION RUNTIMES

DATASHEET

FEATURES

- Multiple supported runtimes and frameworks
- DevOps-ready
- Integrated runtimes and middleware technologies
- Enterprise-grade, production-ready

BENEFITS

- Provides access to established and emerging technologies
- Increases developer productivity
- Accelerates time to market
- Offers a standardized application development portfolio
- Provides market-proven technologies

PRODUCT OVERVIEW

Development organizations need to deliver solutions to the business faster than ever while minimizing cost and lowering risk. As a result, they need multiple tools, languages, and frameworks to implement their business applications. Having the right tool for the right task is a requirement. At the same time, existing applications need to evolve and integrate with new, agile processes and highly-distributed architectures that use the cloud.

Red Hat® Application Runtimes provides a set of comprehensive frameworks, runtimes, and programming languages for developers, architects, and IT leaders with cloud-native application development needs. It accelerates the development and delivery of business solutions so you can keep your competitive edge—and spend more time innovating.

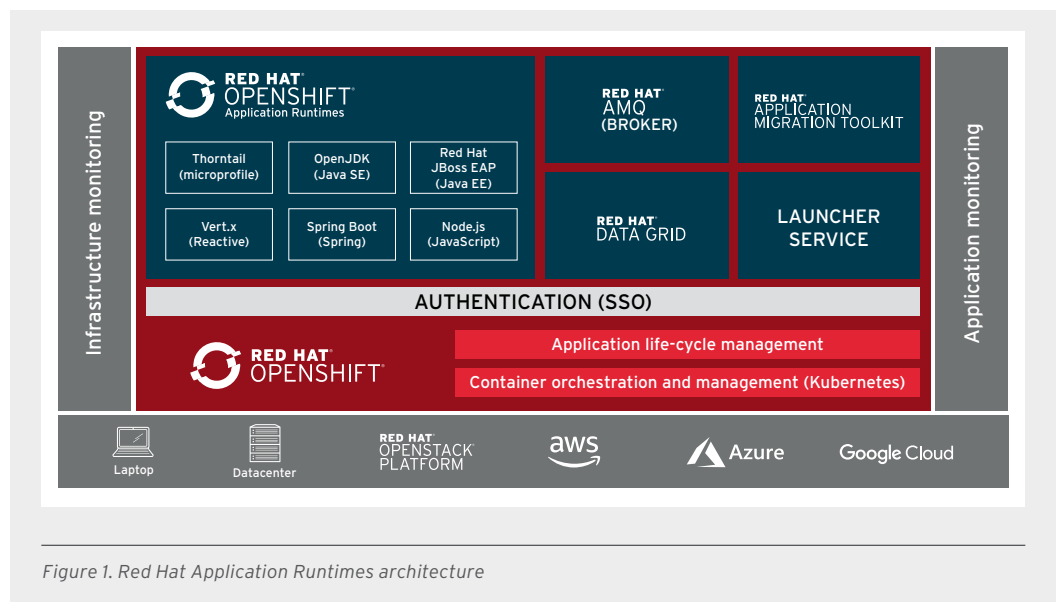


Figure 1. Red Hat Application Runtimes architecture

TABLE 1. FEATURES AND BENEFITS OF RED HAT APPLICATION RUNTIMES

KEY FEATURES	BENEFITS
Multiple supported runtimes and frameworks	Established and emerging technologies Provides access to established and emerging middleware technologies for true freedom and flexibility.
Integrated runtimes and middleware technologies	Standardized application development portfolio Standardizes your application development portfolio, including runtimes, data messaging, data access, and security. Increases developer productivity to save your organization time and money.



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LAUNCH SERVICE

Red Hat launch services help developers get up and running quickly in the cloud with a number of ready-to-run examples (missions and boosters) that demonstrate the power of Red Hat Application Runtimes.

launch.openshift.io/launch

KEY FEATURES

DevOps-ready

Enterprise-grade, production-ready middleware technologies

Example applications, application migration toolkit

BENEFITS

Accelerated time to market

Offers tight integration with Red Hat OpenShift® to accelerate time to market by providing the ideal platform to develop, deliver, and deploy cloud-native applications.

Market-proven technologies

Provides established and market-proven technologies and production-ready capabilities, including application runtimes, data caching, data messaging, and security.

Developer productivity

Delivers increased efficiencies by providing the right tool at the right time, allowing developers to spend more time innovating to stay competitive.

TECHNICAL SPECIFICATIONS

Red Hat Application Runtimes is a recommended set of products, tools, and components to develop and maintain cloud-native applications. The portfolio provides runtimes, frameworks, fast data access, and high-performance messaging in flexible, easy-to-use, cost-effective, open, and collaborative ways. Red Hat Application Runtimes can run on-premise, in the cloud, or within a container platform, such as Red Hat OpenShift.

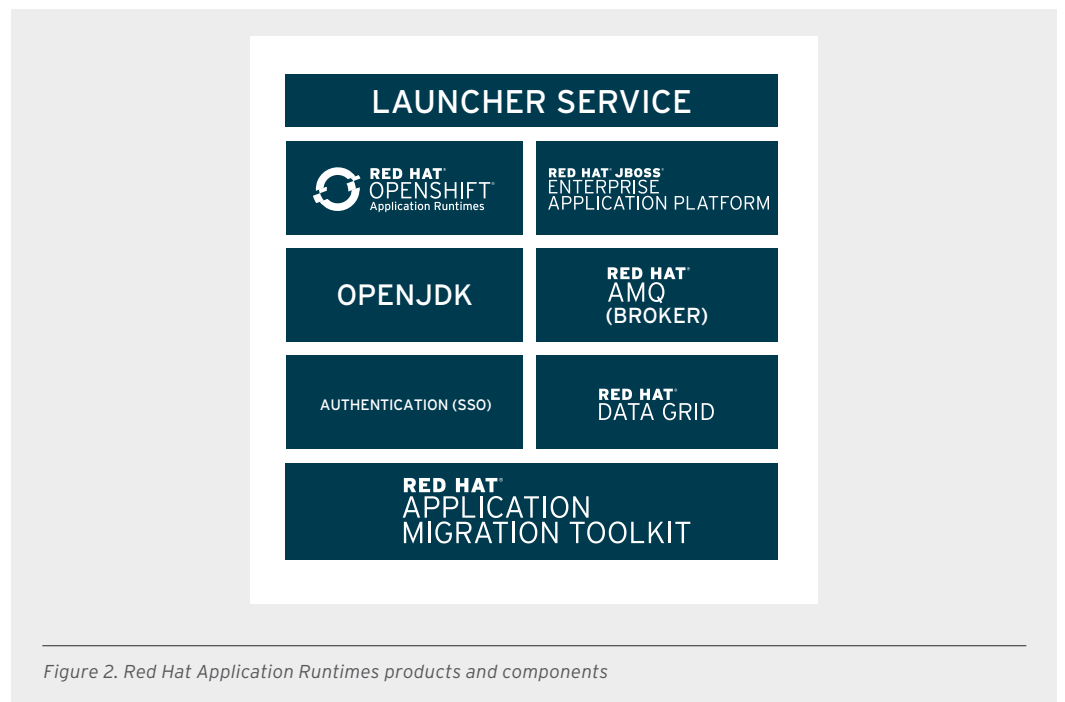


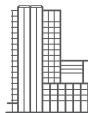
TABLE 2. DESCRIPTIONS OF RED HAT APPLICATION RUNTIMES PRODUCTS AND COMPONENTS

PRODUCTS	
Red Hat OpenShift Application Runtimes	<p>RUNTIMES</p> <p>Vert.x. Builds distributed and reactive applications on top of a Java™ Virtual Machine (JVM) using an asynchronous, non-blocking development model.</p> <p>Thorntail. Builds bootable Java applications with only the needed Java EE libraries and bootstrap code. With its MicroProfile compatibility, Thorntail accelerates the transition to microservices using existing Java EE experience.</p> <p>Node.js. Provides a trusted platform for building, hosting, and scaling server-side JavaScript applications.</p> <p>Spring Boot. Creates standalone, production-grade Spring-based applications that use a Red Hat JBoss® Web Server-embedded Apache Tomcat container.</p>
Red Hat JBoss Enterprise Application Platform (EAP)	Provides a leading open source Java EE-based application runtime for building, deploying, and executing highly transactional Java applications and services.
OpenJDK	Free and open source implementation of the Java Platform, Standard Edition (SE) and the default Java development and runtime in Red Hat Enterprise Linux®. Packages for OpenJDK are made available in Red Hat Enterprise Linux in the same manner as the rest of the content set.
Red Hat Data Grid	An enterprise open source distributed data management system for application data that uses memory, keeps information synchronized across multiple servers, and can be used as distributed cache, NoSQL database and event broker.
Red Hat AMQ (broker)	Red Hat AMQ (broker) is a full-featured, message-oriented middleware broker. It offers specialized queuing behaviors, message persistence, and manageability.
Red Hat Application Migration Toolkit	Application Migration Toolkit provides a set of utilities for easing the process of taking customers' proprietary or outdated middleware platforms to a state-of-the-art, lightweight, modular, and cloud-ready middleware application infrastructure—making teams more productive and ready for the future.

PRODUCTS

Authentication (SSO)	Based on the Keycloak project, single sign-on (SSO) enables customers to secure web applications by providing web SSO capabilities based on popular standards such as SAML 2.0, OpenID Connect, and OAuth 2.0. The SSO server can act as a SAML or OpenID Connect-based identity provider, integrating your enterprise user directory or third-party SSO provider for identity information with your applications via standards-based tokens.
Launcher service	<p>The launcher service helps developers build and deploy a new application in under five minutes. The service creates the application scaffolding so developers can focus on writing the business logic and delivering value. The launcher service allows the user to select a front-end application (i.e., React, Angular, Vue.js), backend runtime (i.e., Node.js, Spring Boot, Thorntail, Vert.x), and backend capability (i.e., relational db, http api). The service offers the choice of building and deploying online via Red Hat OpenShift or running locally.</p> <p>The service also provides preconfigured, functioning sample applications that demonstrate core principles of modern microservices application development and run in an environment similar to production.</p>

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 integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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redhat.com
f15500_1901

NORTH AMERICA
1 888 REDHAT1

**EUROPE, MIDDLE EAST,
AND AFRICA**
00800 7334 2835
europe@redhat.com

ASIA PACIFIC
+65 6490 4200
apac@redhat.com

LATIN AMERICA
+54 11 4329 7300
info-latam@redhat.com

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