

# Red Hat Application Foundations

## The combination of Red Hat Application Foundations and Red Hat OpenShift:

- ▶ Helps application development teams spend time innovating and delivering value with both flexibility to use the right tools for the requirement and a fast time to market.
- ▶ Allows organizations to collaborate efficiently among distributed teams and across hybrid cloud environments as they strategically modernize applications for a competitive advantage.
- ▶ Helps organizations build, connect, and deploy applications and services across on-premise, private cloud, and public cloud environments.
- ▶ Provides a platform for policy-driven management that helps distributed teams build and deploy applications with low friction and increasing frequency while also minimizing vulnerabilities and protecting employee, customer, and citizen data.

## Overview

Red Hat® Application Foundations includes frameworks and capabilities to design, build, deploy, connect, scale, and focus on the security of cloud-native applications. When combined with Red Hat OpenShift®, Red Hat Application Foundations creates a platform to help development and operations teams efficiently build and modernize applications with a focus on security while balancing developer choice and flexibility with operational control and security.

Red Hat Application Foundations includes capabilities to help teams adopt modern and cloud-native architectures including foundational patterns like microservices, API-first, and data streaming. And when combined with other technologies allows them to rapidly adopt more complex patterns such as event-driven architecture and artificial intelligence and machine learning (AI/ML) that unlock new, innovative capabilities for their organizations.

By using Red Hat Application Foundations technologies in concert with their proprietary and third-party software, organizations are able to add innovation to scalable, efficient, execution and maximize the agility and benefits of their modernization journey. Benefitting from open source technology, including Red Hat Enterprise Linux® and Red Hat OpenShift, Red Hat Application Foundations delivers a flexible and proven set of tools that allows teams to choose the best technologies for their needs as they evolve application strategy and development.

## Features of Red Hat Application Foundations

Red Hat Application Foundations helps you create a platform for building and deploying applications that help developers be more productive and innovative.

It allows operations to be more efficient by making code in production more reliable, performant, and scalable, and it fully equips business leaders with agile development, integration, and automation.

## As part of its comprehensive portfolio, Red Hat Application Foundations includes:

- ▶ Application and API connectivity.
- ▶ Data transformation.
- ▶ Service composition and orchestration.
- ▶ Real-time messaging and data streaming.
- ▶ Java™ application frameworks.
- ▶ In-memory distributed data store.
- ▶ Single sign-on.
- ▶ Migration toolkit for applications.

### Red Hat Application Foundations capabilities have demonstrated success:

- ▶ According to IDC, customers have linked the use of Red Hat application frameworks that are included with Red Hat Application Foundations to more than doubling the number of new applications they can deliver (126% more on average) as well as more frequently providing the business with new features (54% more on average). **IDC, sponsored by Red Hat, “The Business Value of Red Hat Integration Products,” July 2021**
- ▶ IDC research has shown customers using Red Hat integration capabilities that are included with Red Hat Application Foundations were able to increase the number of features developed by 63%, the number of API endpoints by 40%, and the number of applications by 38%. While accomplishing this output, they also improved their IT staff efficiency. **IDC, sponsored by Red Hat. “The business value of Red Hat Runtimes,” June 2021**

### Included technologies

These technologies are included in Red Hat Application Foundations:

Cloud-native integration	Application runtimes	Application services
AMQ streams	Red Hat build of Quarkus	Red Hat SSO
AMQ broker	Red Hat build of OpenJDK	Red Hat Data Grid
Debezium	Spring Boot	Red Hat JBoss Web Server
Service registry	Node.js	Migration toolkit for applications
Red Hat 3scale API Management		
Camel Extensions for Quarkus (CEQ)		
Camel K (CK)		
Camel for Spring Boot (CSB)		

Red Hat Application Foundations includes additional entitlements for current Red Hat customers that need to maintain existing applications on non-cloud-native technologies as they transition to the cloud. Contact your Red Hat seller to learn more.

### The benefits of Red Hat Application Foundations

#### Accelerate innovation

Combine CI/CD efficiency with innovation and speed the delivery of new applications to improve customer experiences, internal processes, or derive a competitive advantage. Red Hat Application Foundations includes tools that provide modern and cloud-first approaches to architecture giving development teams the ability to focus on innovation.

### Modernize cloud management

Resolve the complexities associated with maintaining both existing and new applications using open cloud-native approaches. Application development and operations teams have a streamlined experience that combines container orchestration, developer efficiency, and flexibility and pipeline efficiency.

### Adapt to changing requirements

Help application teams act as valued business partners for organizational growth and success through technology. When the demands or requirements for applications shift, Red Hat Application Foundations can help developers adapt quickly and accelerate time to market with a comprehensive set of tools.

### Hybrid and multicloud

Have a unified application environment designed to support and streamline the complex reality of hybrid cloud operations and modernization to cloud computing. Through a consistent experience across cloud environments, operations and development teams can efficiently and predictably deliver new capabilities to stakeholders to meet organizational needs.

### Create a platform for applications

Create an organizational platform for development and operations teams to build and modernize applications efficiently and securely while balancing developer choice and flexibility with operational control and security when combining Red Hat OpenShift with Red Hat Application Foundations.



### 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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