RED HAT MIDDLEWARE

Create a connected, nimble, and flexible application landscape

DATASHEET

OVERVIEW

Development organizations need to deliver solutions faster than ever while minimizing cost and lowering risk. At the same time, existing applications need to evolve and integrate with new agile processes and highly distributed architectures that take advantage of the cloud.

As organizations adapt existing applications and develop new ones—using either a cloud-native application development or hybrid cloud approach—portable, flexible, cost-effective capabilities are required. Red Hat® Middleware meets these digital transformation needs of thousands of customers worldwide and enables an agile, modern, and responsive organization.

Figure 1. Modernization and innovation with Red Hat Middleware

RED HAT MIDDLEWARE PORTFOLIO

Red Hat Middleware offers a portfolio of products and components to create, integrate, and automate modern business applications and processes. The offerings are optimized for containers and Red Hat OpenShift® and on-premise, cloud, or hybrid architectures.

With Red Hat Middleware, organizations can accelerate the development and delivery of business solutions to spend more time innovating and keep their competitive edge. The portfolio provides runtimes, frameworks, fast-data access, high-performance messaging, integration, decision management, and business process automation capabilities in flexible, easy-to-use, cost-effective, open, and collaborative ways. All products can run on-premise, in the cloud, or within a container platform such as Red Hat OpenShift Container Platform.

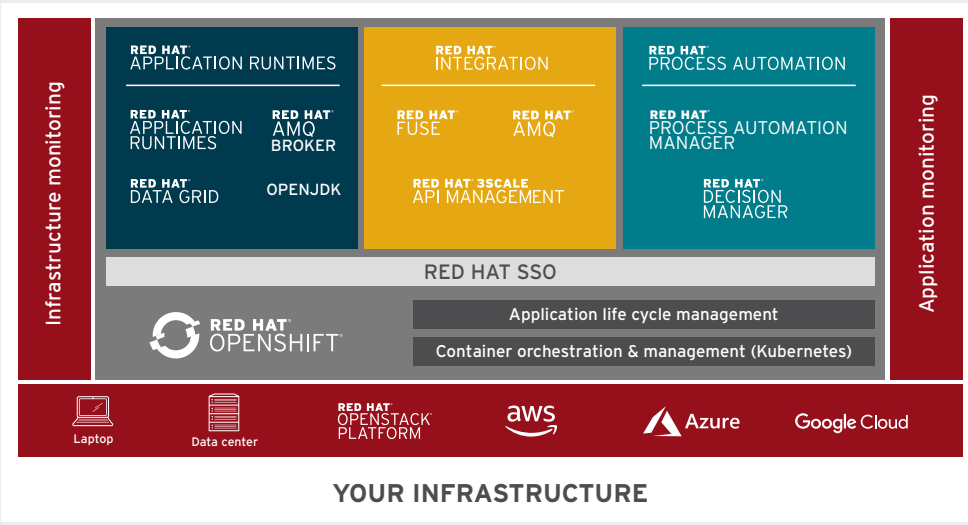
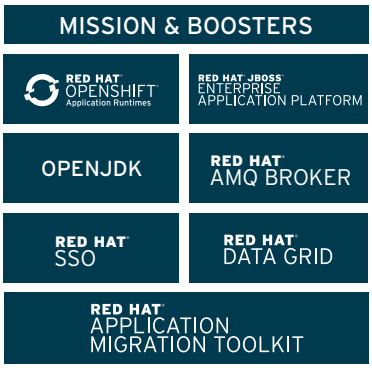


Figure 2. Red Hat Middleware capabilities

RED HAT APPLICATION RUNTIMES

For organizations looking to modernize existing applications or create new ones, Red Hat Application Runtimes provides the integrated and optimized products and components necessary to deliver modern applications.

IT teams can containerize applications through adoption of a microservices architecture, improve data access performance and resilience with in-memory data caching models, improve service-to-service communication with messaging, and adopt cloud-native application development using modern development patterns and technologies. Red Hat Application Runtimes includes:



- Powerful application runtimes, frameworks, and languages
- SSO authentication and authorization
- In-memory datastore solution
- Standards-based enterprise messaging
- Application migration and modernization tools
- Prescriptive development boosters (launch service)
- OpenShift and Kubernetes service native integration

Figure 3. Red Hat Application Runtimes and its features

RED HAT INTEGRATION

For organizations interested in adopting highly distributed integration deployments, Red Hat Integration provides the products and components necessary to adopt an application programming interface (API)-first approach. This allows enterprise-wide visibility and control of APIs, creation of APIs for orchestration of services on newly developed applications or existing ones, and fast and reliable messaging for building low-latency messaging and streaming solutions based on proven messaging patterns.

Red Hat Integration includes Red Hat Application Runtimes, Red Hat AMQ, Red Hat 3scale API Management, and Red Hat Fuse.

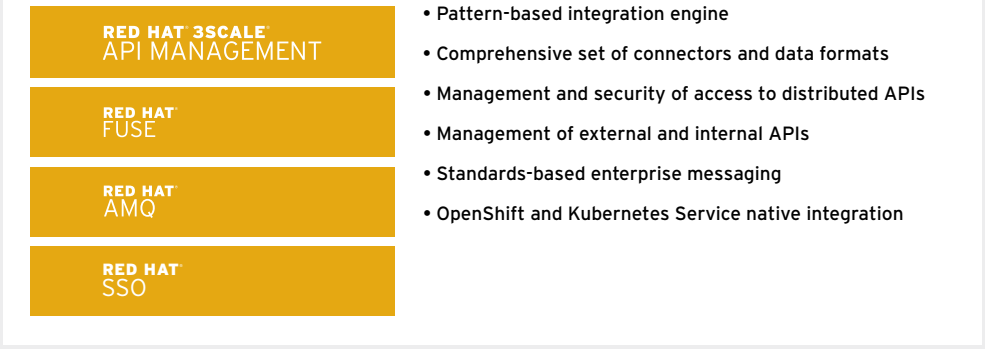


Figure 4. Red Hat Integration and its features

RED HAT PROCESS AUTOMATION

For organizations looking to improve business agility, operational efficiency, and time to market, Red Hat Process Automation provides tools and components necessary to deliver applications that automate business processes and decisions that can be rapidly adapted to a changing environment. Collaboration between IT and business teams enables the capture and enforcement of policies and procedures, automation of business operations, and result measurement of business activities across heterogeneous environments, including physical, virtual, and cloud.

Red Hat Process Automation includes Red Hat Application Runtimes, Red Hat Process Automation Manager, and Red Hat Decision Manager.

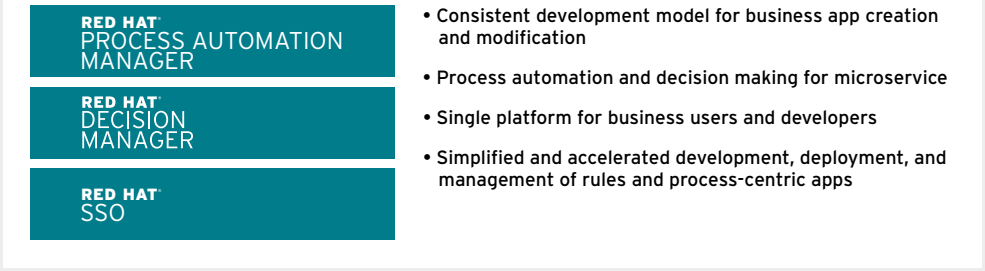


Figure 5. Red Hat Process Automation and its features

OPTIMIZED FOR OPENSHIFT

Red Hat OpenShift Container Platform brings Kubernetes and other leading open container technologies such as CRI-O and docker to the enterprise. It lets you easily and quickly build, develop, and deploy in nearly any infrastructure, public or private.

The combined power of the Red Hat Middleware portfolio plus Red Hat OpenShift, as shown in Figure 6, streamlines the deployment, delivery, and scalability of cloud-native applications on a container-based platform for a consistent development environment throughout the life cycle of an application.

ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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SELF-SERVICE PROVISIONING
Developers can provision what they need on-demand and skip waiting for hours, days, and sometimes weeks for infrastructure resources.

CONSISTENT ENVIRONMENTS
Provisioned environments are consistent across the life cycle of an application—from the operating system to libraries and runtime versions.

AUTOMATED BUILD AND DEPLOY
Red Hat OpenShift gives developers the choice to build containerized applications themselves, or have the platform build containers from application source code or binaries.

CI/CD PIPELINES
Red Hat OpenShift provides support for continuous integration/continuous delivery (CI/CD) pipelines so that teams can automate every step of the application delivery process.

CONFIGURATION MANAGEMENT
Configuration and sensitive data management are built into the platform to ensure consistency regardless of what is used to build the application, or into which environment it is deployed.

APPLICATION LOGS & METRICS
Integrated monitoring and log management allow tracking of application metrics, changes, and issues.

Figure 6. Combined benefits of Red Hat Middleware and Red Hat OpenShift