Red Hat
JBoss Enterprise Application Platform

5 ways Red Hat JBoss EAP supports your cloud journey

Cloud adoption is inevitable, but it takes time to migrate and modernize.

Organizations choose to move applications to the cloud for many reasons, including flexibility, scalability, speed, and cost. In fact, they run 53% of their workloads in a public cloud today, and expect to move an additional 6% of workloads to the cloud in the next 12 months.[1]

Red Hat® JBoss® Enterprise Application Platform (JBoss EAP) can help you make the most of your existing applications when moving to the cloud. It provides enterprise-grade security, performance, and scalability to let you deliver applications faster, from anywhere, including on-site, virtualized, and private, public, and hybrid cloud environments. And because JBoss EAP versions are supported for 10 years after release, you can take advantage of a stable, reliable platform for applications for many years to come. It also lets you migrate and modernize your applications over time, on your schedule, while giving you a foundation for cloud-native application development and deployment.

Here are 5 ways that JBoss EAP supports your cloud journey.

1   Develop more efficiently

45% of organizations plan to use the delivery speed of new products and services as a metric for assessing their progress against cloud goals.[1] Red Hat JBoss EAP gives your developers the tools and resources they need to work efficiently and focus on building the applications your organization needs. For example, they can implement critical business services like web applications, data transactions, and messaging based on JakartaEE.

Using the Red Hat Ansible® Automation Platform middleware collection, you can also automate the deployment and configuration of JBoss EAP applications in virtual machines in the cloud. Your developers can access resources configured to match the production environment to write, test, and debug code. And you can build images, perform quality assurance, and deploy applications via automated continuous integration/continuous deployment (CI/CD) pipelines. Finally, JBoss EAP includes sample applications and integrated development environment (IDE) plug-ins to help you get coding faster.

2   Accelerate innovation

21% of organizations plan to use the speed of innovation as a metric for assessing their progress against cloud goals.[1] The Red Hat JBoss EAP expansion pack (XP) improves resource utilization and gives developers enhanced application programming interfaces (APIs) and support for common microservices-based patterns for deployment, configuration, security, and observability through Eclipse MicroProfile APIs. Applications deployed on JBoss EAP in the cloud have access to a variety of services — including modern, cloud-native frameworks and automated deployment pipelines — that help you easily scale and quickly update your applications. Combining the features of JBoss EAP with cloud services — like datastores, caches, and messaging — helps your developers quickly build and deploy new applications and features that meet the needs of your customers.

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1 Flexera. "Flexera 2023 State of the Cloud Report," March 2023.

3 Deploy applications anywhere

44% of organizations cite migrating more workloads to the cloud as a primary cloud initiative.[1] Each application has its own set of requirements and supports your business in different ways. Red Hat JBoss EAP lets you choose the right deployment and migration strategy for each application. It gives you the choice and flexibility to run your applications in virtual machines or containers on-site or in private, public, or hybrid clouds. The modular architecture deploys services only as needed to reduce memory footprints and attack surfaces, while speeding startup times. Multiple deployment options and efficient resource utilization let you choose the best-perform-ing, most cost-effective infrastructure for each application.

4 Improve application security

Security remains a top cloud concern for 79% of organizations.[1] Running Red Hat JBoss EAP in Red Hat OpenShift® containers helps improve application security. Galleon layers let you build smaller runtime images with reduced attack surfaces. Red Hat Advanced Cluster Security for Kubernetes performs image scanning to enforce compliance and security policies across the container life cycle. Because Red Hat OpenShift images cannot be tampered with, they are a key component of a secure supply chain.

Cloud providers also implement extensive security measures through both their hardware and software and provide compliance checklists to help you achieve the right level of protection. JBoss EAP works with cloud security services to protect your applica-tions and organization. This layered approach to security helps you reduce risk, simplify application security, and meet compliance requirements more easily.

5 Optimize cloud spending

Managing cloud spend is a top cloud challenge for 82% of organizations.[1] Red Hat works with Amazon Web Services (AWS), Google Cloud, and Microsoft Azure to let you choose how you want to purchase, consume, and deploy Red Hat JBoss EAP.

▸ Use your cloud provider committed spend programs and discounts for JBoss EAP instances in the cloud.

▸ Purchase JBoss EAP subscriptions from Red Hat and use them on-site or in the cloud via Red Hat Cloud Access.

▸ Obtain instances from the AWS and Azure marketplaces.

▸ Use the Red Hat Hybrid Committed Spend program for flexibility across on-site and cloud deployment models.

Gain flexibility in your cloud journey

Red Hat JBoss EAP supports your cloud journey and can play a key role in your cloud strategy. You can deploy JBoss EAP in the cloud in many ways.

▸ **Microsoft Azure:** EAP on Azure, Azure App Service, or Azure Red Hat OpenShift

▸ **AWS:** EAP on AWS or Red Hat OpenShift Service on AWS

▸ **Any cloud:** EAP on Red Hat OpenShift

Red Hat's experts can also help you deploy JBoss EAP in the cloud, so you can get started faster.

Learn more

Learn more about Red Hat JBoss EAP.

Try Red Hat JBoss EAP

Try Red Hat JBoss EAP in a Red Hat OpenShift sandbox.

About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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