Overview

IBM® Cloud Pak® for Applications is an enterprise-ready, containerized software solution for modernizing existing applications and developing new cloud-native apps that run on Red Hat® OpenShift®.

Built on IBM WebSphere® offerings and Red Hat OpenShift Container Platform with IBM Kabanero Enterprise, Cloud Pak for Applications provides a long-term solution to help you transition between public, private, and hybrid clouds, and create new business applications. Cloud Pak for Applications also provides:

- Modernization tools such as IBM Cloud Transformation Advisor to assist with your move to the cloud.
- Developer tools such as Eclipse Codewind to build and deploy your new cloud-native applications with the IDE of your choice.
- Entitlement to IBM Cloud Private to provide a transition path to OpenShift.

Benefits

- Develop innovative cloud-native applications using the tools and runtime of your choice.
- Modernize your applications faster and make them more secure. Cloud Pak for Applications speeds development of applications built for Kubernetes to access cloud services.
- Run your existing applications where they are, and deploy your modernized and new cloud-native applications to the cloud in containers.

Learn more about Cloud Pak for Applications and what it can do for your business at the IBM Cloud Pak for Applications website.

Key offerings included with IBM Cloud Pak for Applications

IBM Cloud Pak for Applications provides several software offerings in one bundle. You can choose to deploy some or all the purchased software. For a list of all software in Cloud Pak for Applications, see Installing.
IBM WebSphere Application Server

WebSphere Application Server, with its traditional and Liberty runtimes, offers production-ready, standards-based Java™ EE compliant architectures. WebSphere runtimes in DevOps workflows make it easy to integrate WebSphere into modern toolchains and DevOps implementations. This enables secure, flexible, and efficient access to internal or external software components and services. WebSphere support for IBM Cloud Private, public clouds, traditional servers, and Docker container deployments provides seamless hybrid topologies.

Cloud Pak for Applications includes the WebSphere Application Server Network Deployment, WebSphere Application Server, and WebSphere Liberty Core editions.

Red Hat OpenShift Container Platform

Red Hat OpenShift is a leading enterprise Kubernetes platform that provides a security-focused, consistent foundation to deliver applications anywhere and with streamlined developer workflows to get to market faster. Red Hat OpenShift delivers a comprehensive solution for hybrid cloud, enterprise container, and Kubernetes development and deployments. It includes an enterprise-grade Linux® operating system, container runtime, networking, monitoring, container registry, authentication, and authorization solutions. These components are tested together for unified operations on a complete Kubernetes platform that spans every cloud.

IBM Kabanero Enterprise

Kabanero Enterprise is the commercial enterprise-ready and fully supported implementation of the Kabanero open source community project. Kabanero Enterprise integrates with, extends, and adds value to Red Hat OpenShift.

Kabanero offers open source technologies in a microservices-based framework that simplifies development, build, and deployment of applications for both Kubernetes and Knative (serverless).

Learn more about Kabanero at the Kabanero website.

IBM Cloud Transformation Advisor

Transformation Advisor helps you plan, prioritize, and package your on-premises workloads for modernization on Cloud Pak for Applications. Transformation Advisor gathers preferences about your on-premises and wanted cloud environments and then analyzes existing middleware deployments by using a data collector. After you upload the results of the data collector, you can review recommendations for migrating your applications to different cloud platforms and
the estimated effort to migrate and modernize. Transformation Advisor also creates necessary deployment artifacts to accelerate your migration into Cloud Pak for Applications.

Learn more about Transformation Advisor in the IBM Cloud Transformation Advisor documentation.

IBM Application Navigator

IBM Application Navigator is a tool that helps you visualize, inspect, and monitor the deployed resources in applications, with a single view across hybrid deployments. After you modernize your applications, you can use Application Navigator to define cloud applications, import Network Deployment cells or Liberty collectives to visualize both existing and containerized applications, add your modernized applications to cloud applications, and otherwise administer cloud native and hybrid applications. Application Navigator extends the open source Kubernetes Application Navigator (kAppNav) with integrated support for WebSphere Application Server Network Deployment and Liberty.

Learn more about IBM Application Navigator at https://ibm.github.io/appnav.

Kubernetes Application Navigator

Applications

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Red Hat Runtimes

Red Hat Runtimes provides a set of open runtimes, tools, and components for developing and maintaining cloud-native applications. It offers lightweight runtimes and frameworks for highly distributed cloud architectures, such as microservices.

IBM Cloud Private

IBM Cloud Private is an integrated platform for developing and managing containerized applications. You can deploy this private, integrated environment behind firewalls and manage or control it in flexible options as dictated by the needs of your enterprise. It is built on open source frameworks and the container orchestrator Kubernetes, and contains a private image repository, a management console, monitoring tools, and a robust catalog of services. It also enables integrations to popular open source and cloud-native tools, as well as IBM application middleware and development services.

IBM Mobile Foundation

IBM Mobile Foundation offers a secured platform for developers to rapidly build and deploy the next generation of digital apps, including mobile, wearables, conversation, web, and PWAs. With Mobile Foundation, developers get containerized mobile back-end services covering comprehensive security, application lifecycle management, push notifications, feature toggle, offline sync, and back-end integration. The platform also includes a low-code studio, private appstore, and rich SDKs for widely used mobile frameworks for both native and hybrid developers.