

IBM Cloud Pak for Applications v4.1



Cloud accelerates digital transformation

Innovate Faster - Deliver true business value and delight your customer

Transform Business – Refresh legacy and employ the cloud to deliver a competitive advantage

Optimize ROI - Increase operational efficiency and reduce cost



What's preventing rapid Modernization today?

- **Skills**
Microservices, containers/Kubernetes,
open source, using Cloud based services
- **“What code changes need to be made?”**
Effort to change, affinities with current
execution environment
- **Enterprise grade requirements**
Security, compliance, data movement,
scaling, integration, management,
analytics, “day 2 operations” in a hybrid
Cloud environment



Application development is changing the face of business

App & Services Development and Deployment

- ★ *new tools/platforms*
- ★ *more developers*
- ★ *agile methods*

- **Rapid productivity growth**
- **Optimizing business process efficiency**
- **New abilities to leverage important business data**
- **Keeping pace with the demands of a connected world**

accelerating digital innovation volume and pace

Cloud Paks: Middleware Anywhere

A faster, more secure way to move your core business applications to any cloud through enterprise-ready containerized software solutions

IBM containerized software

Packaged with Open Source components,
pre-integrated with the common operational services,
and secure by design



Container platform and operational services

Logging, monitoring, security,
identity access management



AWS

Microsoft
Azure

Google
Cloud



Complete yet simple

*Application, data and AI services,
fully modular and easy to consume*

IBM certified

*Full software stack support, and ongoing
security, compliance and version compatibility*

Run anywhere

*On-premises, on private and public clouds,
and in pre-integrated systems*

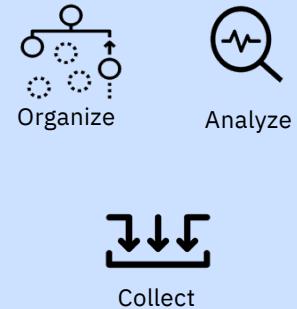
Cloud Paks – Pre-integrated for cloud use cases

Today, IBM offers clients *the first six Cloud Paks...*

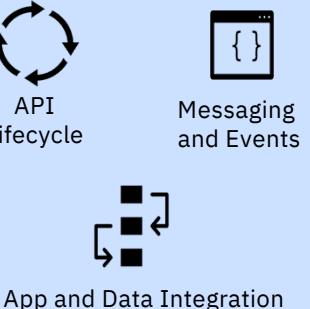
Cloud Pak for Applications



Cloud Pak for Data



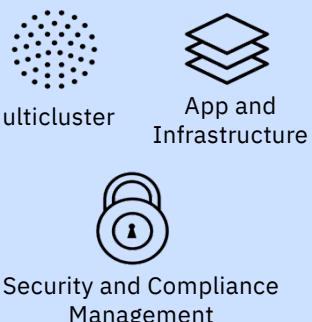
Cloud Pak for Integration



Cloud Pak for Automation



Cloud Pak for Multicloud Management



Cloud Pak for Security



Container platform and operational services



IBM Cloud

AWS

Microsoft Azure

Google Cloud



Edge



Private



Systems

Foundation – Hybrid multicloud

Build once.

Deploy anywhere.

Innovate anywhere.

with anyone's technology.

Move freely.

optimize for cost savings.

Hybrid
multicloud
platform



Capabilities



Foundation



Infrastructure

Application | Data | Integration | Management | Automation | Security

Linux | Containers | Common Services | Multi-cluster Management



IBM public
cloud



AWS



Azure



Google
Cloud



Edge



Private



Systems

- *OpenShift Kubernetes platform for portability*
- *Choice of more cloud vendors and infrastructure*
- *Deployable as untethered private cloud, on premises*
- *Support for multiple open standards across hybrid*
- *Virtualization to bridge legacy to the cloud*
- *Common services for consistency and compliance*

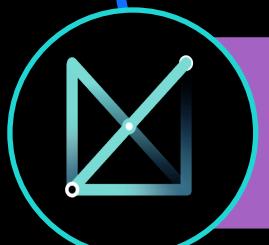
Cloud Pak for Applications

Migrate to cloud at your own rate and pace with flexible licensing to mix and match your entitlements over time



Run existing apps

Protects customer investments: Continue to run existing apps – WebSphere, JBoss



Modernize existing apps

Refactor existing applications to containers on OpenShift



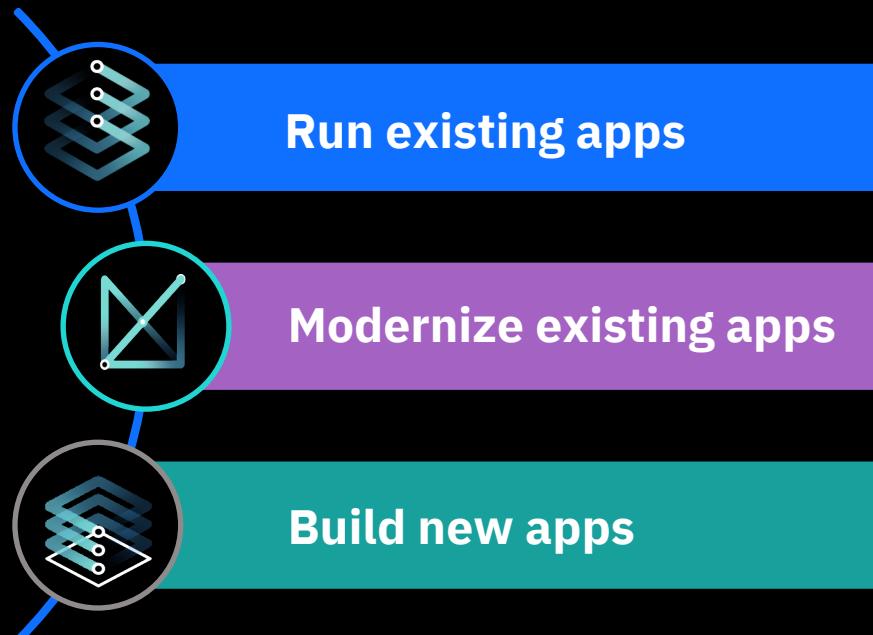
Build new apps

Develop and deploy new cloud native applications

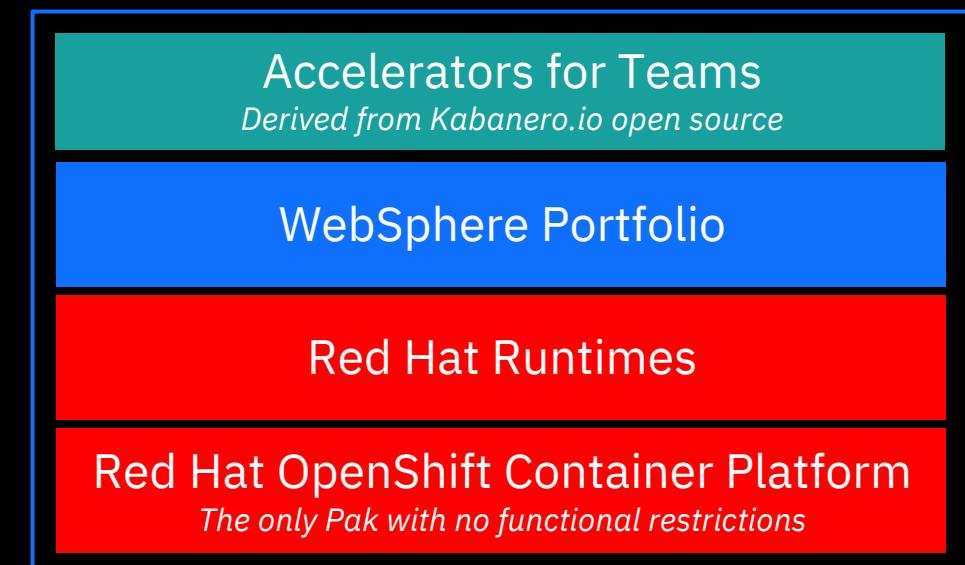
Cloud Pak for Applications – Strategic Value

The ultimate flexibility across open source, platform, runtimes, and tools all in 1 place!

- Build new cloud-native apps on the broadest range of supported runtimes - ***ultimate choice***
- OpenShift Container Platform 4.2 for hybrid multi-cloud - ***ultimate portability***
- “Right-size” and modernize between the various WAS editions - ***ultimate flexibility***
- Empower teams to start quickly with increased productivity and enterprise governance - ***ultimate control***



Ultimate open
source stack for
all workload
needs



Cloud Pak for Applications: what you need today, what you need tomorrow



Run existing apps

WebSphere Application Server

WebSphere ND | WebSphere Base

Liberty Core | Mobile Foundation

JBoss Enterprise Application Platform



Modernize existing apps

IBM Modernization & Developer Tools

Included with all components

Transformation Advisor

Application Navigator

WebSphere Migration Toolkit

Enterprise Dev tools & extensions for local IDE's

Supported when used with Cloud Pak for Applications, no charge

Build new cloud-native apps

ACCELERATORS FOR TEAMS & ENTERPRISE GOVERNANCE

Equipping teams with content, tools, architectures and methods
so they can focus on business problems from day 1

Red Hat CodeReady Workspaces

Collaborative OpenShift-native IDE

Red Hat Runtimes

Java/Jakarta EE

Open Liberty, JBoss EAP

Java SE

OpenJDK

Java Web

JBoss WS

Javascript

Node.js

Spring

Spring Boot

Serverless

Cloud Functions

MicroProfile

Open Liberty, Thorntail

Reactive

Vert.x

Java.next*

Quarkus

*coming soon

WebSphere

Traditional WebSphere

Liberty

Distributed Data

Data Grid

Messaging

AMQ Broker

Mobile Foundation

Red Hat OpenShift Container Platform

Perpetual and Term licensing options available w/ no functional restrictions to OpenShift

*coming soon



Modernize existing apps

IBM Cloud Transformation Advisor



Quickly evaluate on-premises Java EE applications and messaging infrastructure to accelerate deployment to private or public cloud

<http://ibm.biz/CloudTA>

IBM Cloud Transformation Advisor

Welcome to IBM Cloud Transformation Advisor

We know that modernizing your existing middleware deployments can take you into unfamiliar territory. IBM Cloud Transformation Advisor will help you take your first steps toward getting you onto IBM Cloud and IBM Cloud Private.

Tired of this top section? [Hide it](#)

Let's get started.

Add a new workspace

Introspects traditional WebSphere, IBM MQ, WebLogic and Tomcat deployments and determines complexity of modernization



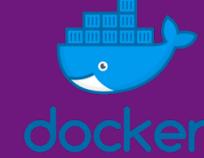
Oracle
WebLogic



IBM MQ



Included in IBM Cloud Private, IBM Cloud Pak for Apps, WebSphere 9.0.5.0, and in stand-alone Docker containers



Provides recommendations, detailed reports, artifacts and automates deployment for simple application modernization

Analysis Report

Potential issues, severity, possible solutions and estimate of resolution effort

Technology Report

Details on IBM platform support for technologies used in the app

Inventory Report

High-level inventory of application content and structure



Customized application configuration and deployment files

Runtimes in pre-built containers

Open source runtimes and frameworks optimized for cloud-native

Single control point for lifecycle of runtimes and apps at scale

Customize to meet company policies and technology choices

Pre-built Kubernetes deployments using Kubernetes operators



Spring boot



express
node.js



Integrated Developer Tools

Simplify building cloud-native apps in containers for Kubernetes and Knative

Extensions to industry standard IDEs

Templates and developer focused CLI



Spring boot



express
node.js



Spring boot



express
node.js



Spring boot



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node.js



Spring boot



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Integrated DevOps Toolchain

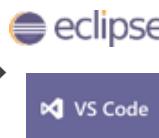
Integrated DevOps Toolchain

Automated end-to-end toolchain from code check-in to production Kubernetes deploy

Pre-built Tekton tasks & pipelines for build and deploy, customizable

Integrates with Git

Leverages the power of K8s to manage your toolchain

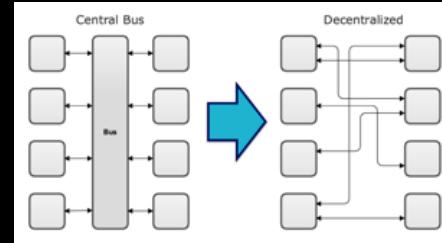


Innovate with Confidence

The unique value of Accelerators for Teams derived from kabanero.io



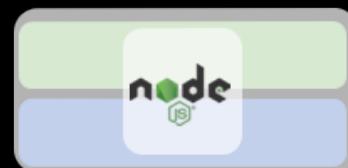
Jane: Lead
Enterprise Developer



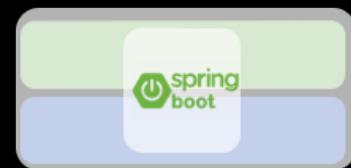
Jane rapidly builds and deploys microservices



Champ: Solution Architect



...



Champ provides (customized) pre-configured application stacks

Platform and Regulatory Standards

- OS, Java and AppServer/JavaEE versions and maintenance
- Authentication, Security, Logging, Monitoring

Empowering teams to start quicker: IT Ops and Architects are now able to provide curated, pre-configured development and runtime stacks to the LOB team. Empowers teams to start quicker.

Operational Efficiency: Maintenance, security controls, and compliance can be returned to the IT Ops teams with updates dynamically pushed to the environments used by the LOB teams.

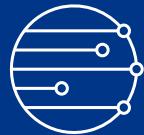


IBM Mobile Foundation

A Platform for Modernizing and Developing Multi-channel Digital Apps

Rapid

Release new apps and app versions more quickly



- Digital App Builder for building apps rapidly
- Reduce time to build new applications or modernize current apps
- Release new apps and app versions more quickly

Intelligent

Simple for developers to incorporate AI and ML, creating powerful and insightful apps



- Secure CoreML model distribution without app updates
- Watson connectors
- Digital app studio (training)

Engaging

Engage users by providing personalized app experience



- A/B testing (Live update)
- Controlled feature release
- Push
- In app feedback
- Personalization

Trustworthy

Develop apps with security, governance and industry leading privacy standards



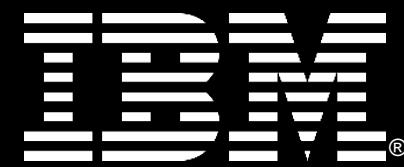
- Multi step authentication
- Encrypted offline JSON Store
- AppID integration
- Credential isolation
- Certificate pinning
- HIPAA Ready

Multi-Channel

Deploy apps across multiple channels at the highest level of production performance



- Multi Channel Analytics
- Multi Channel Notifications
- Encrypted offline storage
- Proven scalability for millions of devices



<https://www.ibm.com/legal/us/en/copytrade.shtml>