

Application Modernization with Cloud Pak for Applications



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

Run existing apps

WebSphere Application Server

WebSphere ND | WebSphere Base

LibertyCore | 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

Frictionless cloud-native development for multi-disciplinary teams.
Enable developers to rapidly innovate knowing they comply with your unique operational, security, and technology standards.

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

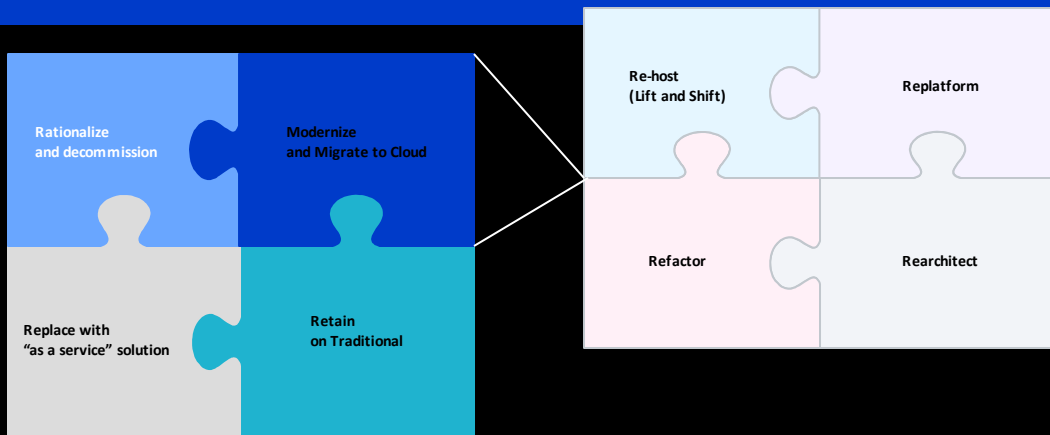
Mobile Foundation

Red Hat OpenShift Container Platform

IBM Cloud Transformation Advisor

Accelerates the modernization journey by quickly discovering and analyzing on-premise Java EE and/or messaging workloads in the enterprise to help in determining and executing the optimum modernization steps for each.

*Optimum modernization
depends on workload needs!*



Runtimes currently analyzed:

Java EE

WebSphere Application Server
Oracle WebLogic
Red Hat JBoss
Apache Tomcat



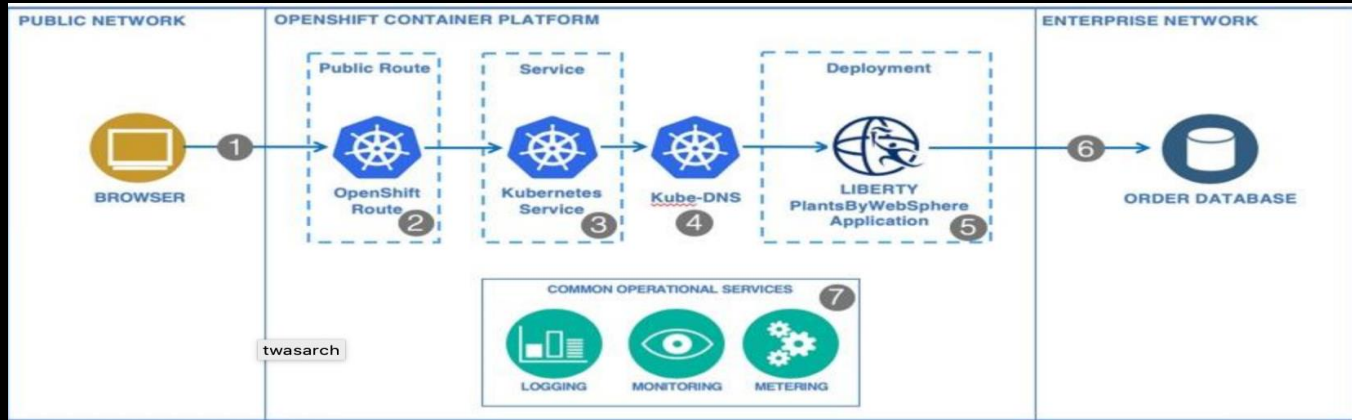
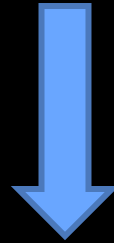
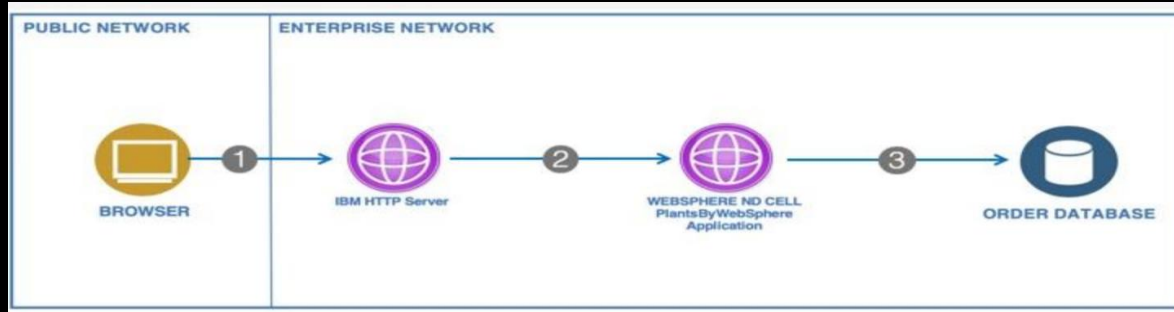
Integration

IBM MQ
App Connect Enterprise (IIB)

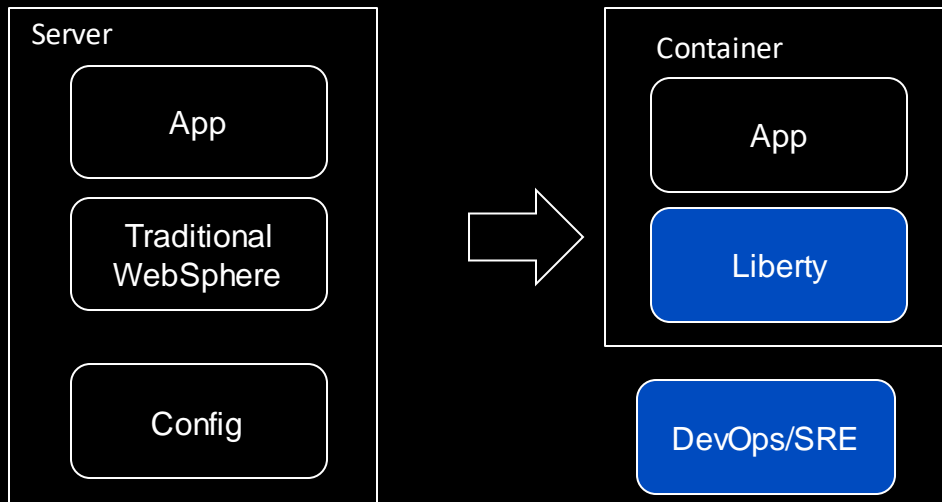


Open Source SDK for other extenders:

[https://github.com/IBM/
transformation-advisor-sdk](https://github.com/IBM/transformation-advisor-sdk)



Repackage and Containerize



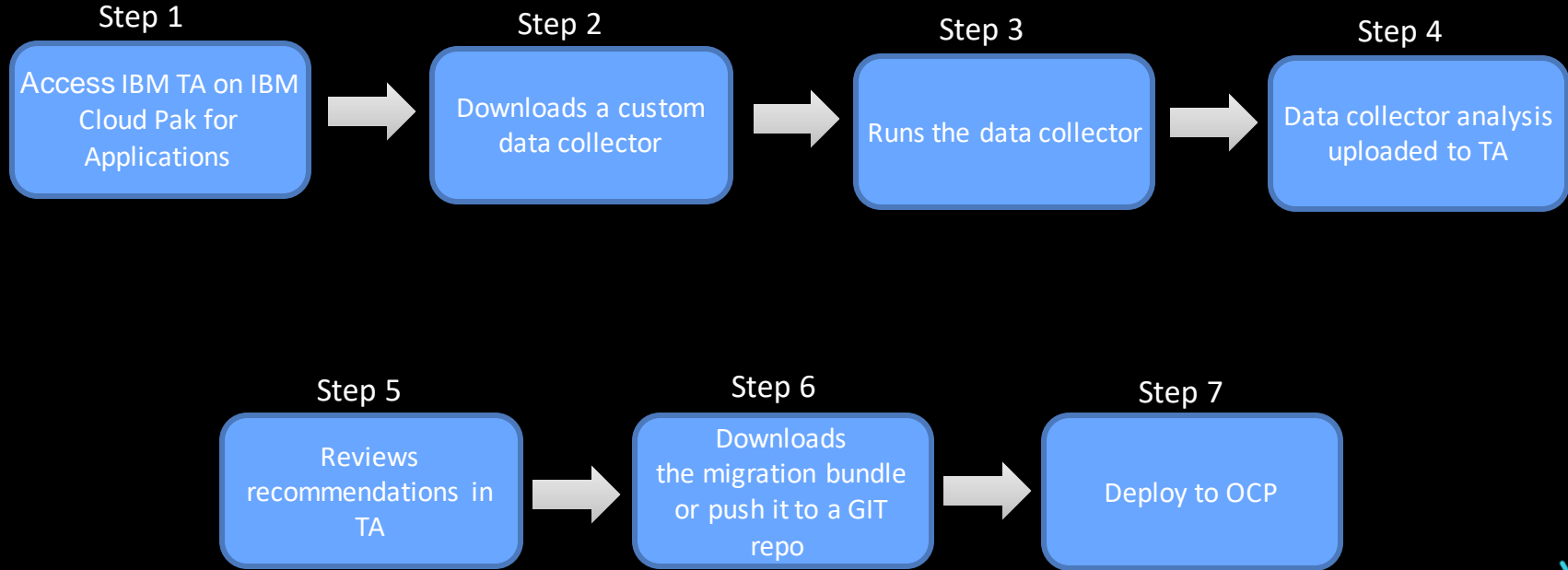
- Change the underlying middleware to Cloud native Liberty platform
- Application changes are kept to minimum

Outcomes Scorecard

Cloud Native	Medium
Cloud Ops	High
Agile delivery	High
Technical debt reduction	Medium
Multi-cloud deploy	High
Cost savings	High



App mod with TA FLOW



What's next?

"Getting Started"

IBM to jointly partner with Ingram Micro on the following steps:

1. "Business Framing" session - Identify small proof of concept scope and success criteria
2. "Technical Discovery" session – Review technology on application scope chosen
3. "Proof of Concept" – Run an investment proof of concept to show process and technology value
4. "Review Added Technology"(As Desired) –
 1. Serverless with Knative,
 2. Service Mesh with Istio
 3. Modern Devops
 1. AppSody, ODO, CodeReady Workspaces
 2. CI/CD with Tekton (Jenkins & Argo CD)

Goal:

IBM and Ingram to showcase the value of POC in a future Tech Talk

