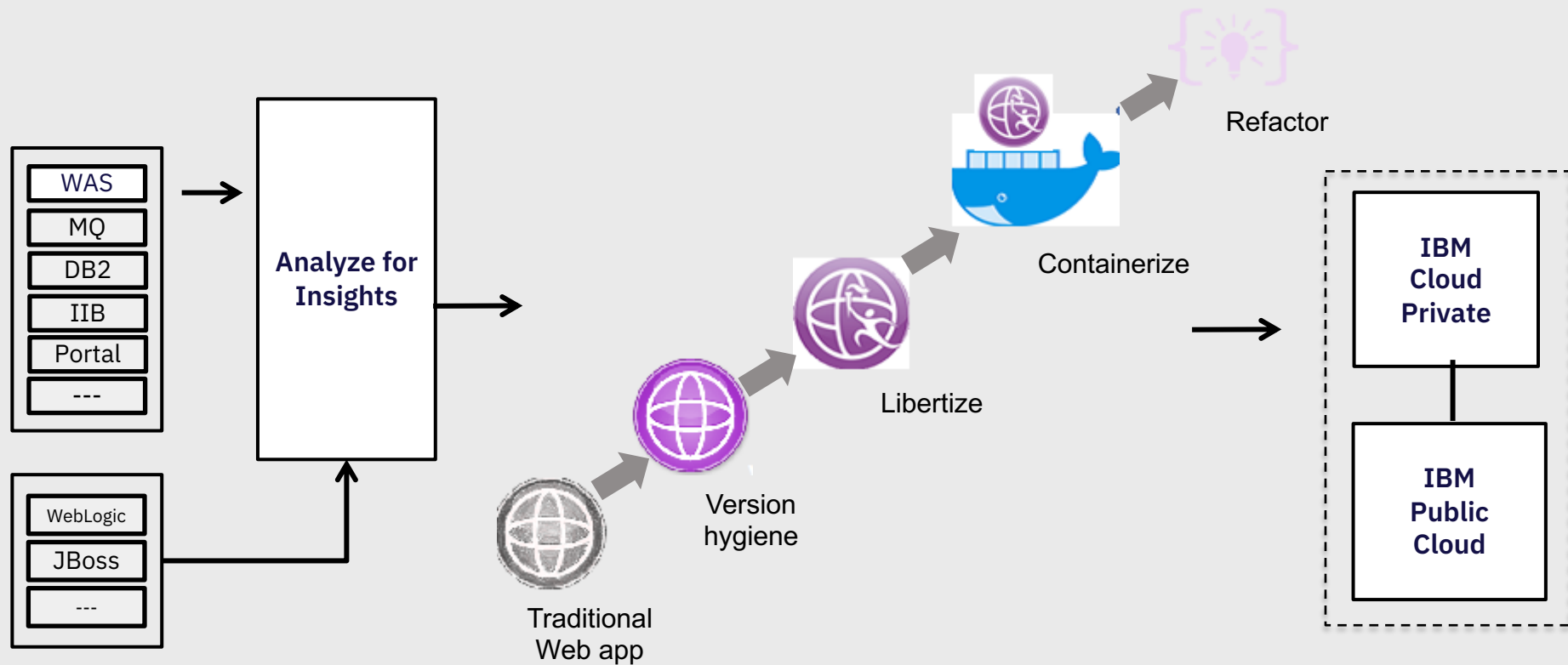




Accelerate the cloud adoption journey



IBM Transformation Advisor

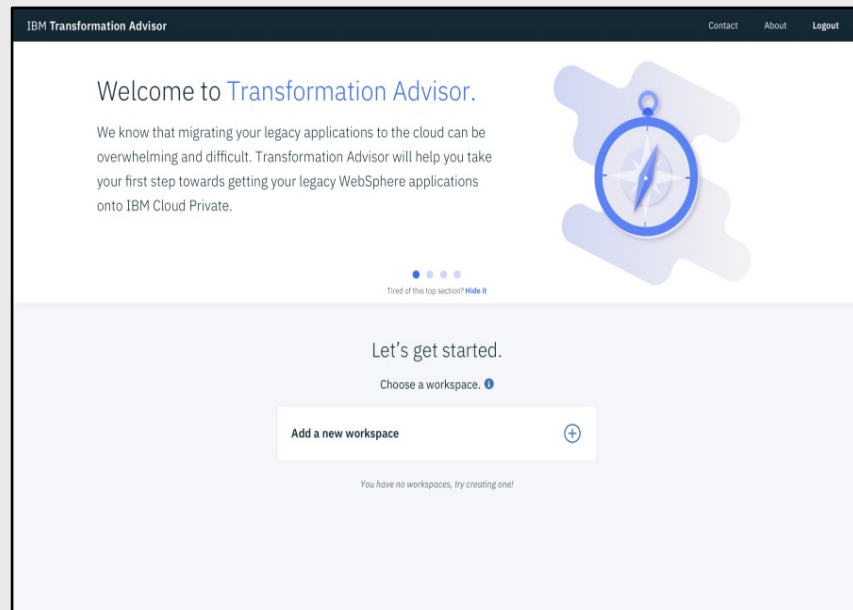
Collects information about an existing WebSphere environment and applications.
Combines that with rules and insights gained from years of working with WebSphere and WebSphere applications, and provides recommendations.

Challenges addressed:

- Leveraging existing application logic
- Need to accelerate application development and maintenance
- Monolithic applications that are complex and tightly coupled

Benefits:

- Included and deployed on IBM Cloud Private
- Introspects existing WebSphere Deployments
- Provides recommendations, guidance and artifacts for deployment in Liberty containers and Kubernetes clouds



IBM Transformation Advisor

Creates application inventory, assesses modernization effort and provides insights and guidance ...

Simple:
No code changes

Moderate:
Some refactoring
needed

Complex:
May decide to run
in WAS in VMs before
re-engineering

The screenshot displays the IBM Transformation Advisor web application. The interface includes a sidebar with 'Workspace' and 'Collections' sections. The main content area has tabs for 'DATA COLLECTOR', 'USER PREFERENCES', and 'RECOMMENDATIONS'. Under 'RECOMMENDATIONS', there's a 'Dmgr01' collection. The 'Source Environment' is 'IBM WebSphere Application Server Network Deployment' and 'Source Version' is '9.0.0.4'. A 'User Preference' of 'Liberty on Private Cloud' is selected. A table lists six applications with their recommended migration paths, complexity levels, and associated metrics. Arrows from the text blocks on the left point to the 'Simple', 'Moderate', and 'Complex' complexity categories in the table.

APPLICATION	RECOMMENDATION	COMPLEXITY	TECH MATCH(%)	DEPENDENCIES	ISSUES	DEV	OVERHEAD	TOTAL	
ibestore_war.ear	Liberty on Private Cloud Server Environment: ✓ Cloud Location: ✓	Simple	100	2	4	0	5	5	View Details Migration Details
StatelessEJB3.ear	Liberty on Private Cloud Server Environment: ✓ Cloud Location: ✓	Simple	100	1	2	0	5	5	View Details Migration Details
DenodoApplication.ear	WebSphere Traditional on Private Cloud (VM) Server Environment: — Cloud Location: ✓	Moderate	100	4	0 0 0	0	5	5	View Details Migration Details
DayTrader-EE6.ear	Liberty on Private Cloud Server Environment: ✓ Cloud Location: ✓	Moderate	100	3	3 1 1	0.5	5	5.5	View Details Migration Details
HealthServicesClient.ear	Liberty on Private Cloud Server Environment: ✓ Cloud Location: ✓	Complex	80	1	2 1	2	5	7	View Details Migration Details
HealthServices.ear	Liberty on Private Cloud Server Environment: ✓ Cloud Location: ✓	Complex	50	0 0 0	1 1	2	5	7	View Details Migration Details

10 items per page | 1-6 of 6 items

1 of 1 pages < 1 >

Please select a recommendation

IBM Transformation Advisor

.. and **accelerates modernization** with customized Liberty and IBM Cloud **deployment artifacts**

The screenshot displays the IBM Transformation Advisor interface. The main heading is "Your migration bundle is ready". Below this, it states "MIGRATION BUNDLE" and explains that the files help with migration to IBM WebSphere Liberty, creating an image, and packaging as a Helm chart. It lists the included files: server.xml, Dockerfile, Helm Charts, and deployment.yaml, each with a "Download" link. A "Download Bundle" button is also present. The "APPLICATION" section shows "jpetstore_war.ear" and "IBM WebSphere Application Server Network Deployment". The "MIGRATE TO" section shows "IBM WebSphere Liberty on IBM Cloud Private". The "HOW IT WORKS" section shows a two-step process: "1. Migrate to IBM WebSphere Liberty" and "2. Containerize WebSphere Liberty".

IBM Transformation Advisor

What's new

← Recommendations

Your migration bundle is ready

MIGRATION BUNDLE

The files included in your migration bundle help your migration to IBM WebSphere Liberty, create an image and help you package your application as a helm chart for easy deployment.

Included in the bundle:

Migration Files 1

✓ server.xml 1	Download
✓ Dockerfile 1	Download
✓ Helm Charts 1	Download
✓ deployment.yaml 1	Download

Application Dependencies 1

✓ APPLICATION Binary 1	jpetstore.war ✕
------------------------	-----------------

APPLICATION

jpetstore_war.ear

IBM WebSphere Application Server Network Deployment

MIGRATE TO

IBM WebSphere Liberty on IBM Cloud Private

Download Bundle

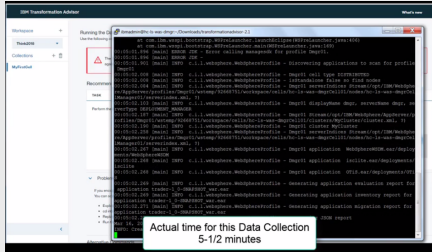
HOW IT WORKS [View the steps](#) →

- 1 Migrate to IBM WebSphere Liberty
- 2 Containerize WebSphere Liberty

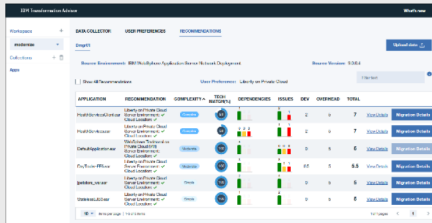
Move to Liberty

Containerize
and deploy

How it works

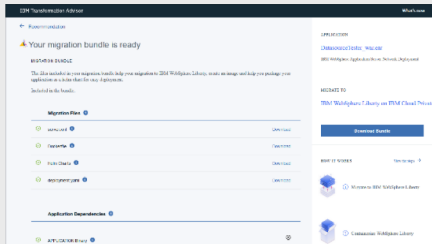


1. Run Data Collector against existing WebSphere system environment to gather information about WebSphere and the applications deployed there



2. Utilizes enhanced WAS binary scanner and configuration migration tools and provides recommendations and insights

Applies rules related to the target cloud, the applications' technology needs and dependencies, best practices for container and cloud deployments, and so forth



3. Generates customized Liberty server.xml, Dockerfile, deployment.yaml and Helm charts for IBM cloud deployments

Application Modernization Assessment and services proposal using Transformation Advisor

Transformation Advisor collects information about your existing WebSphere Environment and Applications, combines that with rules and insights gained from years of working with WebSphere and WebSphere applications, and provides recommendations for your cloud journey

Assessment involves:

- Assisting in running the data collector to extract information on the environment.
- Reviewing the results in depth and providing recommendations on which application can/should be modernized (Libertized and Containerized)
- Assessing the effort involved in the modernization and setting up the IBM Cloud private environment
- Make a plan for services proposal and options

Typical options include:

- IBM doing complete modernization
- IBM and customer working side by side
- IBM doing initial few, documenting and training/supporting developers

Garage Services for Application Modernization

- Get a functional private cloud
- Move application to cloud: Your developers will begin learning the IBM Cloud Garage Method by engaging in experiential learning as you work side-by-side with IBM SMEs to modernize applications
- Learn the best tools and techniques to operate the newly modernized cloud application including an analysis of current operations, runbook review, and management dashboards

You get:

IBM Cloud Private (ICP) + DevOps toolchain setup in non-prod environment with Minimum Viable Product for migrating containerized apps to ICP (may include some re-factoring and/or re-platforming).

Discover & Assess

- Using IBM's Cloud Transformation Advisor tool, understand the applications in the environment, components, technology stack, functional and non-functional, dependencies and processes
- Prioritize candidates (based on assessment) for immediate migration based on application information, value to the business and assessed complexity

You get:

A high level assessment of your overall application portfolio with regard to readiness for modernization

Application Modernization

Modernize & Operationalize

Competency & Deep Skills

Enablement Choices : Mix and match one week of training, choose from offerings:

- Option 1: ICP Boot Camp
- Option 2 : Management and Ops enablement
- Option 3 : Cloud Native App Dev

You get:

Choice of enablement based on your skills transformation needs

Demo

References

- IBM Transformation Advisor
<https://developer.ibm.com/app-modernization/>
- Microclimate
<https://www.ibm.com/us-en/marketplace/microclimate>
- WebSphere Liberty
<http://wasdev.net/>
- IBM Cloud Automation Manager (CAM)
<https://developer.ibm.com/cloudautomation/>
- Free online Garage Method Courses
<https://www.ibm.com/cloud/garage/content/course/websphere-on-cloud-private>
- IBM App Modernization Field Guide
<https://www.ibm.com/cloud/garage/content/culture/app-modernization-field-guide/>
- WebSphere Application Server Migration Toolkit
<https://www.ibm.com/developerworks/library/mw-1701-was-migration/index.html>

