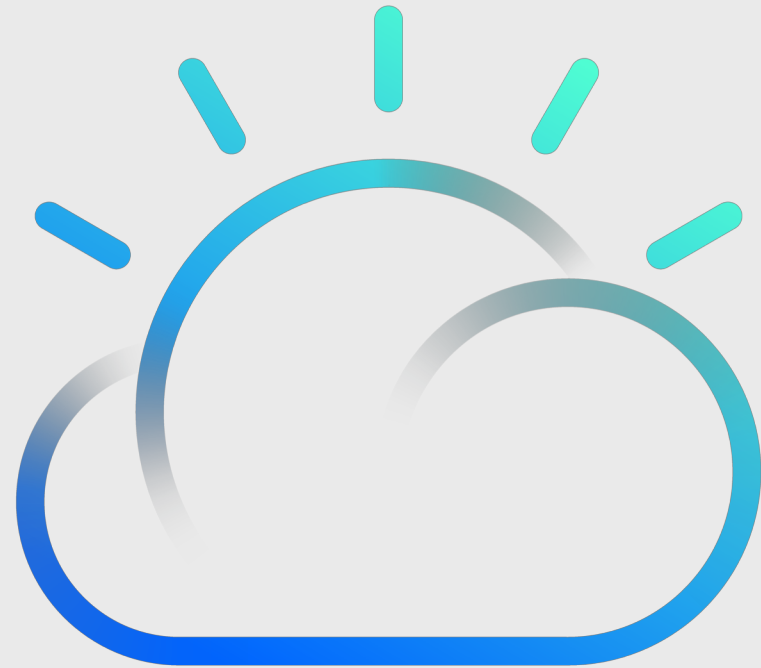
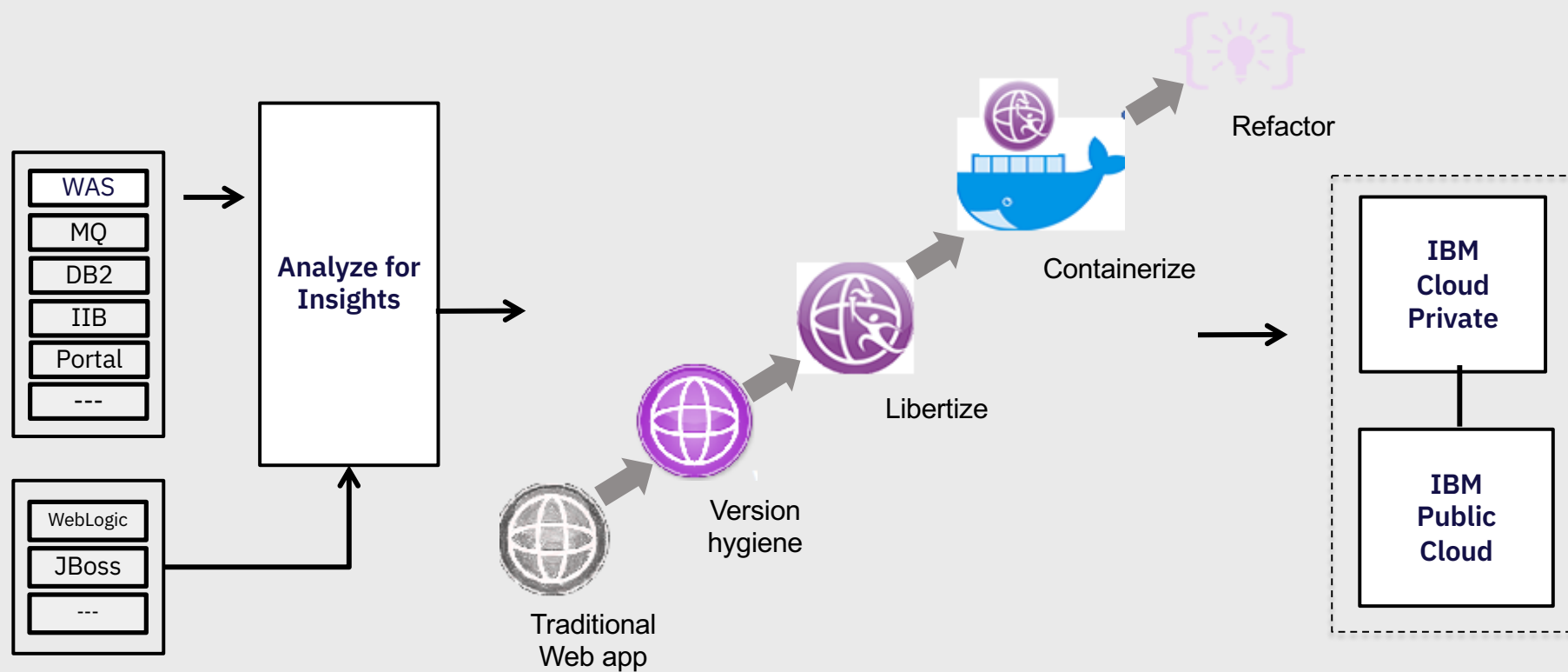


IBM Transformation Advisor



Accelerate the cloud adoption journey



IBM Transformation Advisor

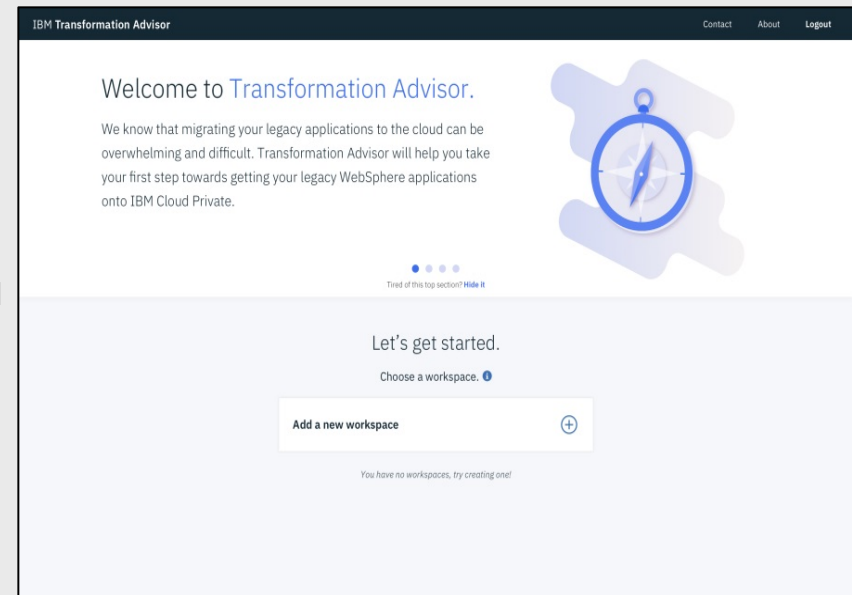
Collects information about an existing WebSphere environment and applications.
Combines that with rules and insights gained from years of working with WebSphere and WebSphere applications, and provides recommendations.

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

IBM Transformation Advisor

Workspace +

Think2018

Collections +

MyFirstCell

More data

DATA COLLECTOR USER PREFERENCES **RECOMMENDATIONS**

Dmgr01

Source Environment: IBM WebSphere Application Server Network Deployment Source Version: 9.0.0.4

☐ Show All Recommendations User Preference: Liberty on Private Cloud Filter text

| APPLICATION | RECOMMENDATION | COMPLEXITY | TECH MATCH(%) | DEPENDENCIES | ISSUES | DEV | OVERHEAD | TOTAL | | |
|--------------------------|---|------------|---------------|--------------|--------|-----|----------|-------|------------------------------|-----------------------------------|
| petstore_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 |
| DefaultApplication.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 | 80 | 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**

Move to Liberty

Containerize
and deploy

The screenshot displays the IBM Transformation Advisor web interface. The main heading is "Your migration bundle is ready". Below this, it lists the "MIGRATION BUNDLE" contents, which include four files: server.xml, Dockerfile, Helm Charts, and deployment.yaml. Each file has a "Download" link. To the right of the bundle list, there is a section for the "APPLICATION" (jpetstore_war.ear) and the target environment "MIGRATE TO" (IBM WebSphere Liberty on IBM Cloud Private). A "Download Bundle" button is present. At the bottom right, a "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 ⓘ

| | |
|---------------------|----------|
| ✓ server.xml ⓘ | Download |
| ✓ Dockerfile ⓘ | Download |
| ✓ Helm Charts ⓘ | Download |
| ✓ deployment.yaml ⓘ | Download |

Application Dependencies ⓘ

| | |
|------------------------|-----------------|
| ✓ APPLICATION Binary ⓘ | jpetstore.war ⓘ |
|------------------------|-----------------|

APPLICATION

jpetstore_war.ear

IBM WebSphere Application Server Network Deployment

MIGRATE TO

IBM WebSphere Liberty on IBM Cloud Private

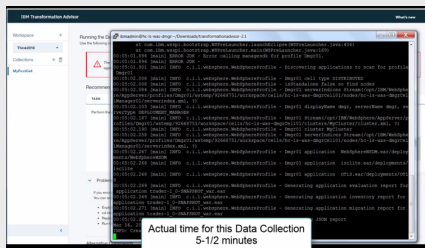
Download Bundle

HOW IT WORKS [View the steps →](#)

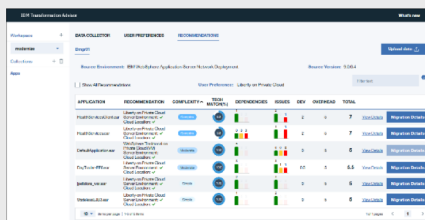
1. Migrate to IBM WebSphere Liberty

2. Containerize WebSphere Liberty

How it works

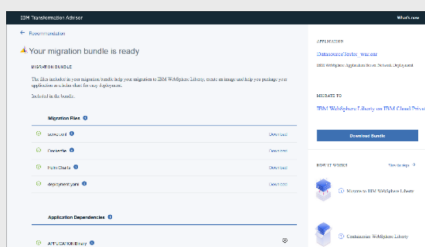


1. Run Data Collector against existing WebSphere system environment to gather information about WebSphere and the applications deployed there



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

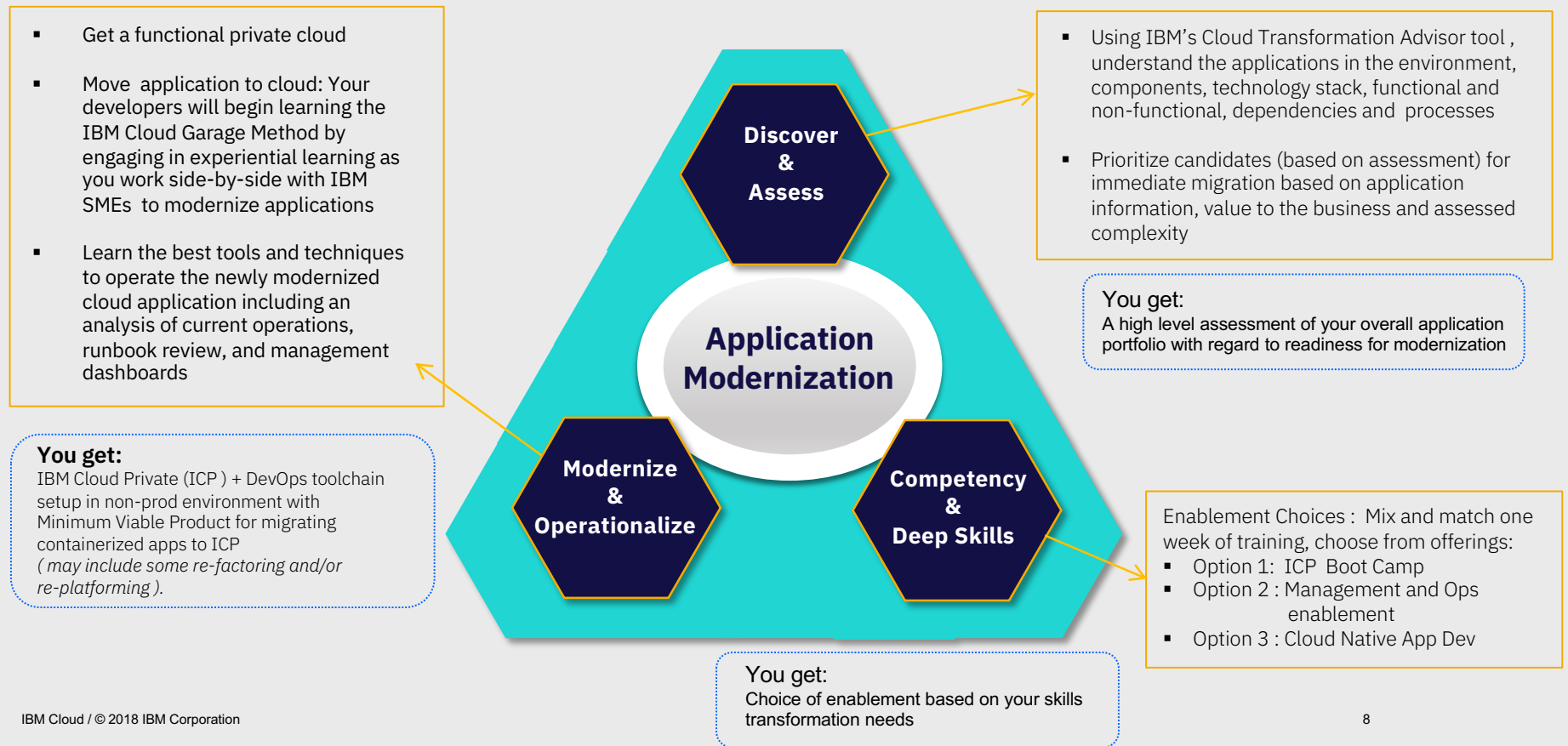
Assessment involves:

- 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



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>

