Application Modernization with IBM Cloud Pak for Applications

IBM Cloud

IBM Cloud // © 2019 IBM Corporation

Focal Offering for Application Modernization use cases

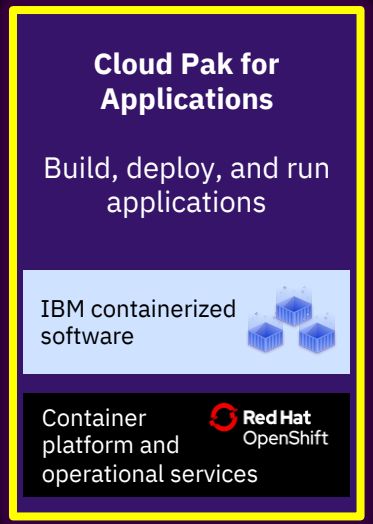
Cloud Pak for Applications

Use cases

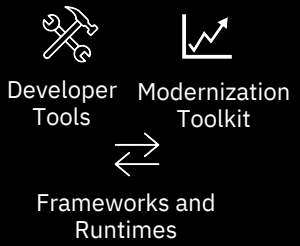
- Move and modernize applications - using insights to appropriately refactor, optimize resources and costs, and reduce complexity
- Develop cloud native apps with containers, starting with open source, common services, developer tools of choice, and integrated DevOps

Competitive differentiation

- Optimized set of frameworks and runtimes for cloud native and traditional
- Accelerate development with governance, supported by IBM enterprise expertise
- Investment protection: modernize at your pace

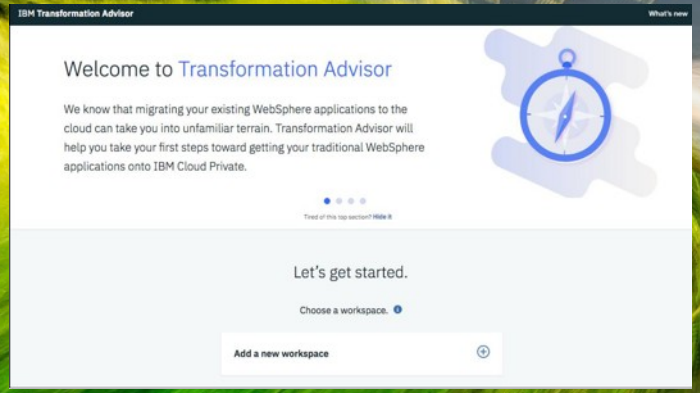


Key capabilities



Pre-integrated Systems · IBM Cloud · Red Hat OpenShift · aws · Azure · openstack · Google Cloud

IBM Cloud Transformation Advisor



Provides insights,
recommendations,
and artifacts
to accelerate
your modernization journey

IBM Cloud Transformation Advisor

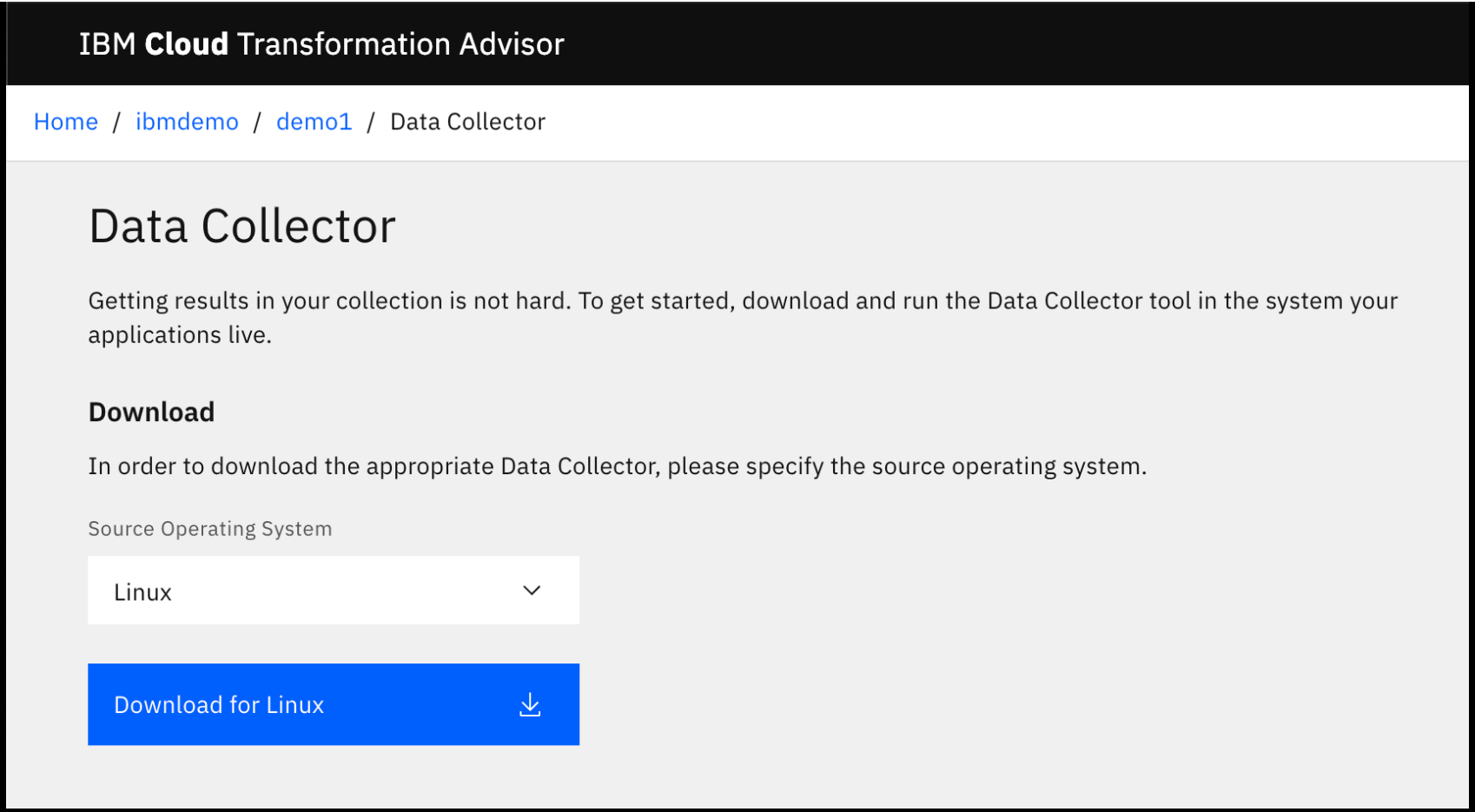
Transformation Advisor can help in these key areas:

Assessment
- Applications evaluated based on business needs
- High-level inventory of application content and structure
- Potential issues and migration complexity assessments

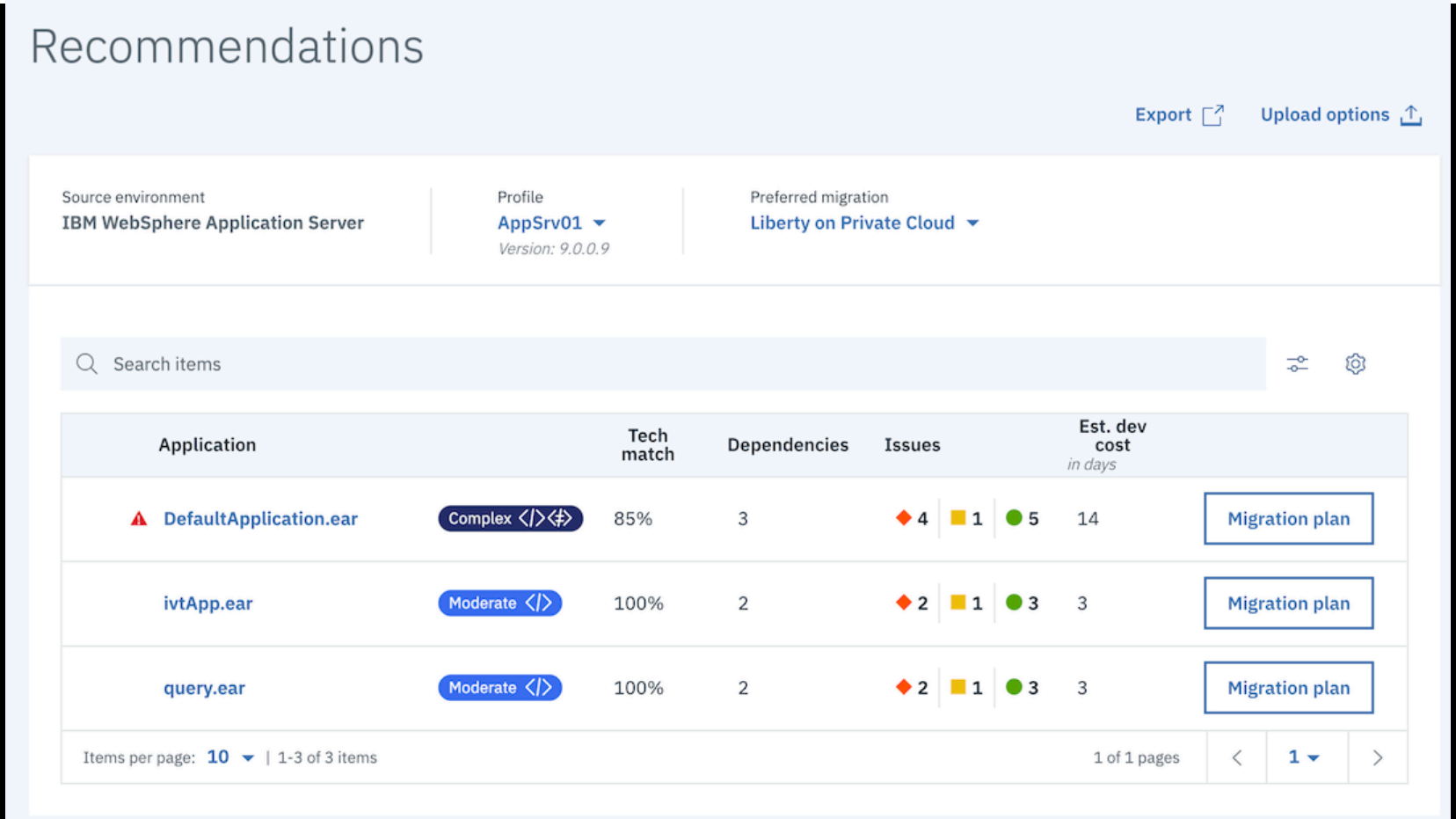
Strategic Planning
- Identification of key applications that require replacement or upgrade
- Estimated effort for resolving migration issues
- Recommendations for a modernization path

Execution
- Migration bundle automatically generated to assist with containerization and deployment
- Files that are included are tailored to your applications
- Dependencies identified to help you to complete the bundle

Assessment


IBM Cloud Transformation Advisor
Home / ibmdemo / demo1 / Data Collector
Data Collector
Getting results in your collection is not hard. To get started, download and run the Data Collector tool in the system your applications live.
Download
In order to download the appropriate Data Collector, please specify the source operating system.
Source Operating System
Linux
Download for Linux

Planning


Recommendations
Export
Upload options
Source environment
IBM WebSphere Application Server
Profile
AppSrv01
Version: 9.0.0.9
Preferred migration
Liberty on Private Cloud
Search items
Application
Tech match
Dependencies
Issues
Est. dev cost
in days
DefaultApplication.ear
Complex
85%
3
4
1
5
14
Migration plan
ivtApp.ear
Moderate
100%
2
2
1
3
3
Migration plan
query.ear
Moderate
100%
2
2
1
3
3
Migration plan
Items per page: 10
1-3 of 3 items
1 of 1 pages
1

Migration

IBM **Cloud** Transformation Advisor

← Recommendations

Your migration bundle is ready

MIGRATION BUNDLE

The files included in your migration bundle help you migrate to Liberty, create an image, and package your application as a Kubernetes Operator for easy deployment.

Download bundle

Migration Files	
server.xml	Download
pom.xml	Download
Operator resources	Download
Dockerfile	Download

Application Dependencies	Use maven repository
APPLICATION Binary	modresorts.war

APPLICATION

ModResorts_war.ear

IBM WebSphere Application Server Network Deployment

MIGRATE TO

Liberty on Cloud Pak for Apps on Private Cloud

Send bundle to Git

First time? Get started →

HOW IT WORKS View the steps →

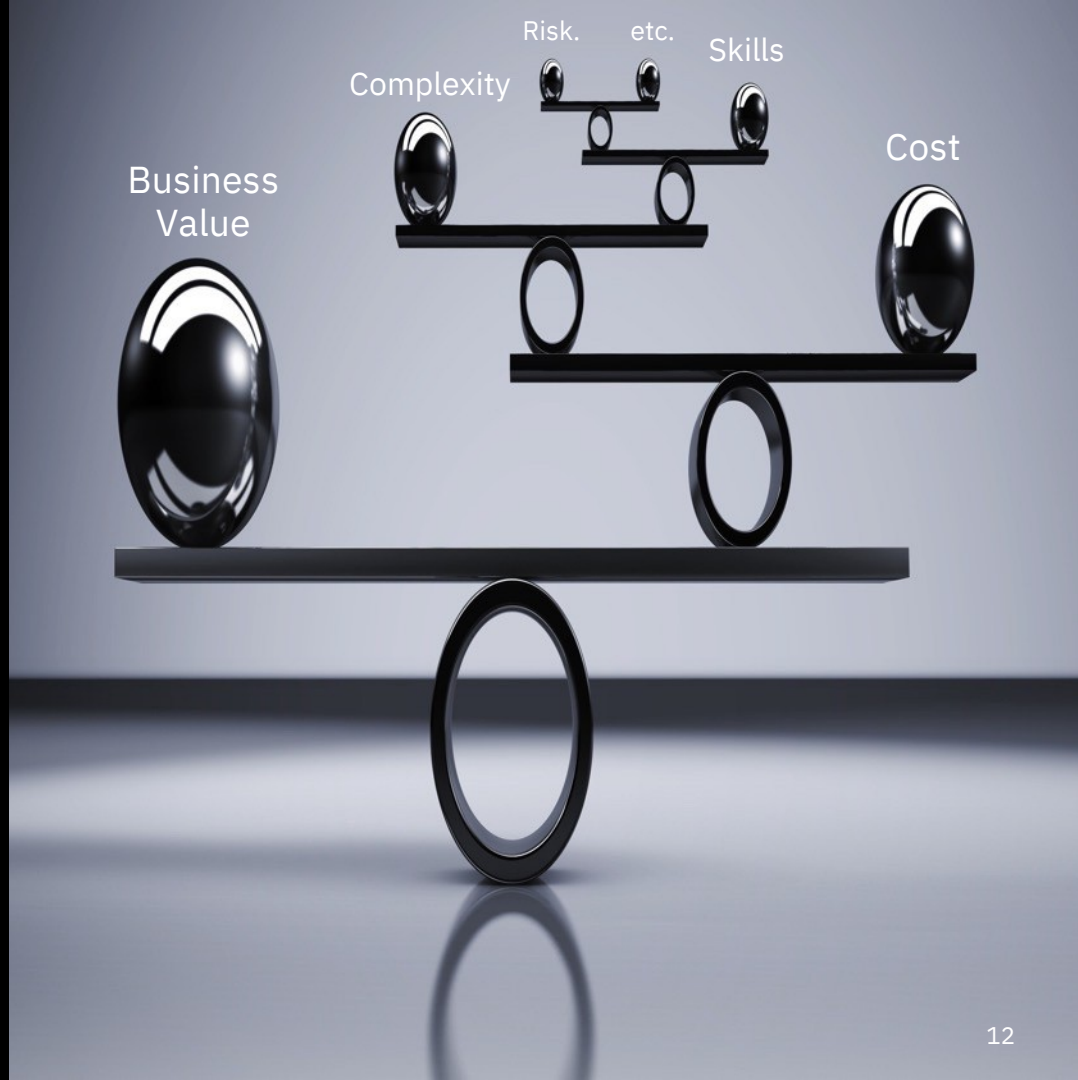
① Migrate

② Containerize

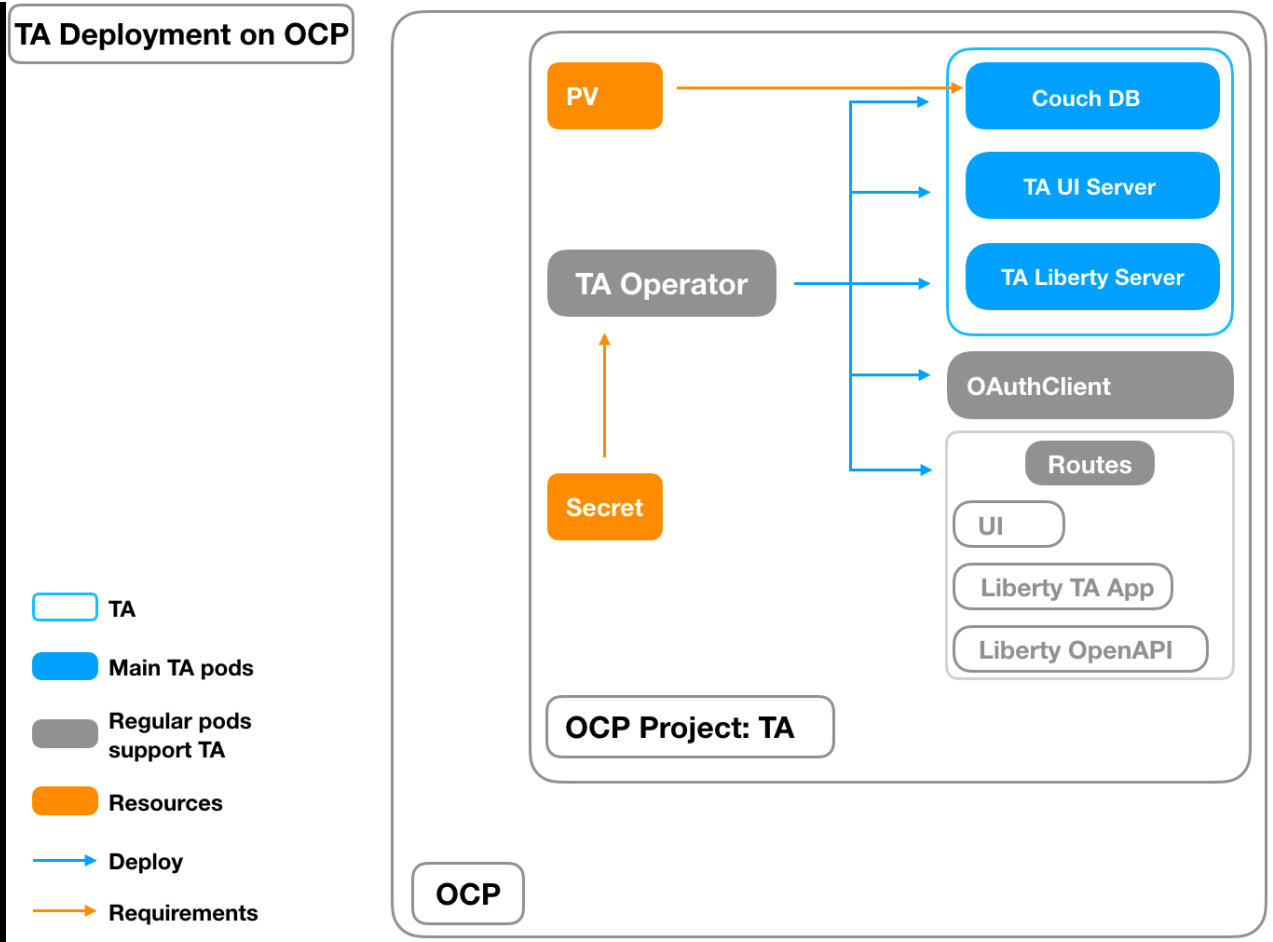
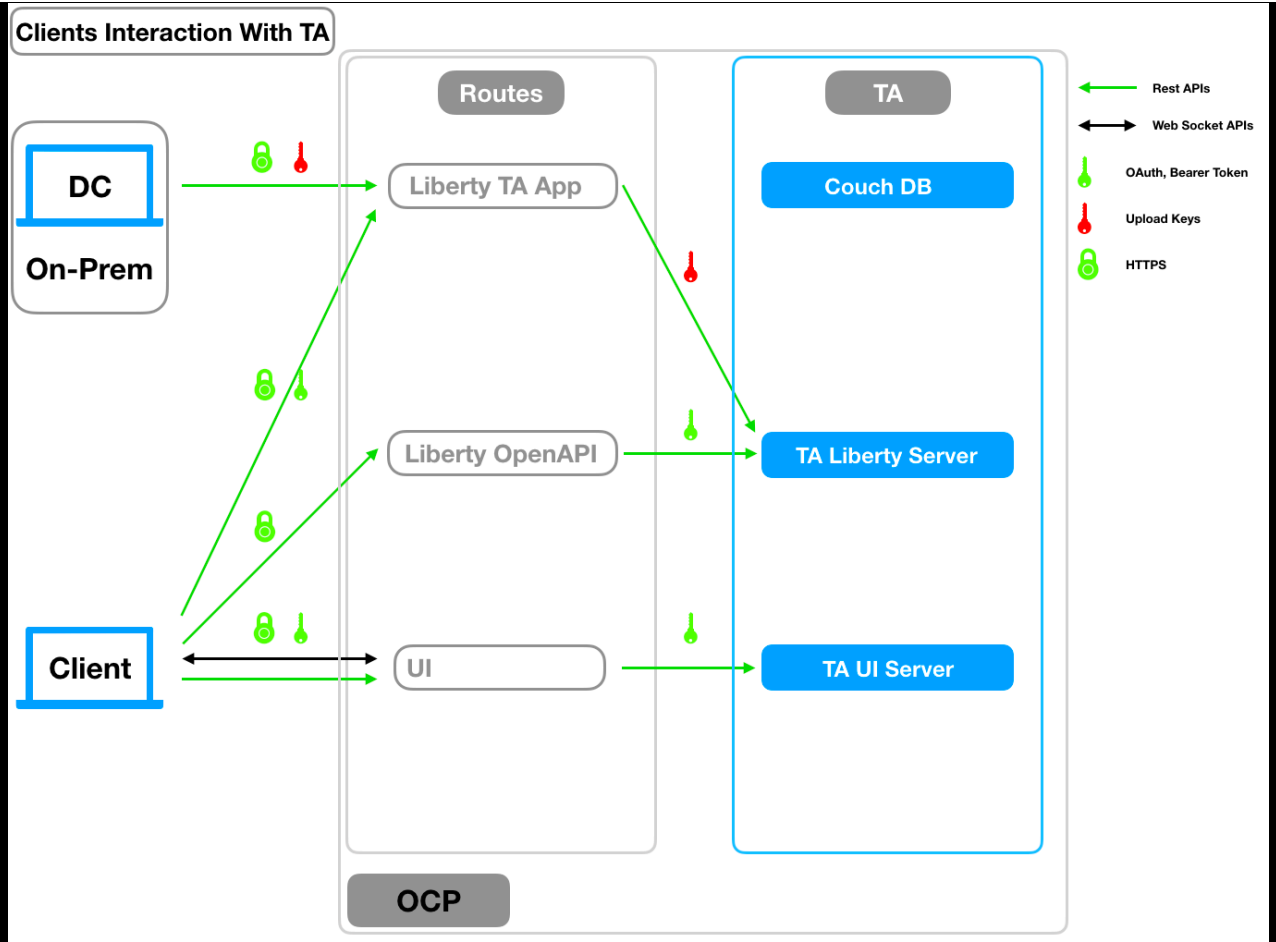
③ Deploy

Modernization Complexity

Complexity	Java EE	IBM MQ
Simple	No code changes needed	DNS reconfiguration required
Moderate	Code changes required	Cluster reconfiguration, changing custom logic (e.g. Exits)
Complex	Incompatible technologies; external dependencies	Client Authentication reconfiguration



Architecture



Client Interaction Flow