

IBM WebSphere Hybrid Edition



Organizations are facing an unprecedented convergence of technological, social and regulatory forces:

- Time to market challenges
- High operational costs
- Managing complexity



Top concerns of WebSphere clients:

- Estate complexity
- Escalating costs
- Lack of cloud skills



A person wearing an IBM polo shirt is sitting at a desk in a server room, looking at a computer monitor. The background shows rows of server racks with blue and purple lighting.

Left alone

40%

of IT budget will be consumed
by technical debt.

Massive transformation
programs are hard to
greenlight and often fail to
deliver quick results.

*How do you break through
to innovation?*

WebSphere Hybrid Edition

A leaner, more economical solution enabling clients to optimize WebSphere applications for immediate gains while also positioning their business for higher, near-term future value



Address the **key challenges** of WebSphere clients today while increasing efficiency, reducing costs, and gaining ROI quickly

Optimize applications and operations to lower costs and increase efficiency

- Leverage and right size existing entitlements
- Run existing apps with ultimate flexibility
- Mix and match, scale up or down as you modernize

Unlock savings and new value through modernization

- Leverage existing investments as you modernize applications
- Empower teams to start modernizing quickly with increased productivity through market-leading tools

Cloud enable your IT estate with enhanced operations and AI-infused guidance and automation

- Realize operational benefits of cloud and containers
- Broadest range of supported, container-ready runtimes for hybrid multi-cloud
- Infuse security and operational insights

IBM WebSphere Hybrid Edition Summary

WebSphere Hybrid Edition is the destination for application workloads

- **Modernize:** Enables application and operational modernization
- **At Your Pace:** Run existing and new workloads side-by-side and transition to containers
- **Flexibility:** Simple, ratio-based deployment flexibility
- **Reduce Cloud Cost:** increase deployment capacity by 75% - low disk & memory footprint, high throughput, without the compromises

WebSphere Hybrid Edition Bill of Materials

- WebSphere Application Server: WebSphere ND | WebSphere Base | Liberty Core | Open Liberty
- IBM Modernization & Developer Tools: Transformation Advisor | Mono2Micro | WebSphere Migration Toolkit
- IBM Cloud Foundry Migration Runtime

WebSphere Hybrid Edition Benefits

- Protects and optimizes existing WAS investment
- Complete set of tooling to begin or accelerate the modernization journey
- Cloud native dev, build, test, deploy experience
- Mix and match capabilities to change the solution mix over time with ratio-based deployments

Right-Sizing and Modernization

Two Complementary Value Streams

Right-Sizing

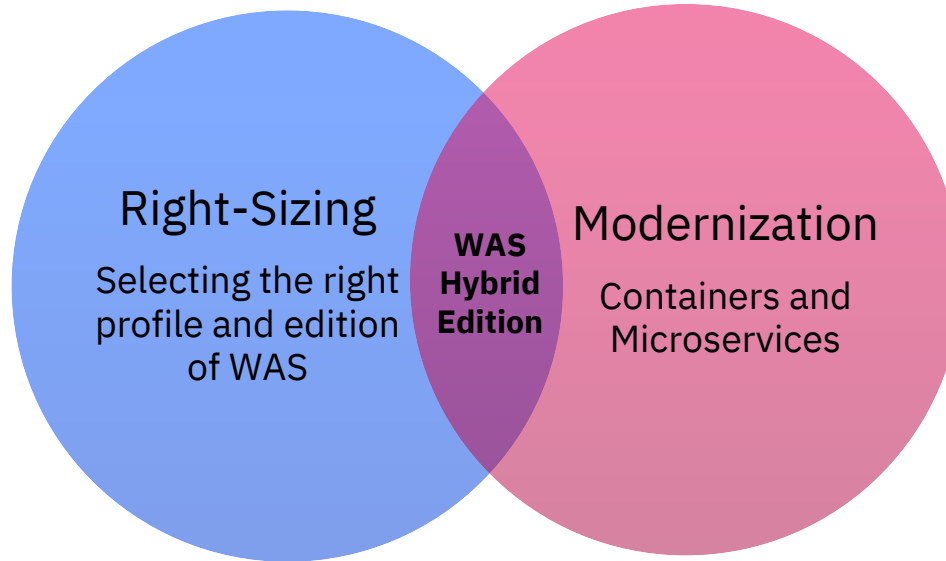
Desired Outcomes

Modernization

Cost Reduction through software license savings

Operational Efficiencies by moving to lighter-weight middleware offerings

Readiness for container-based architectures and microservice



Cost Savings through improved hardware density (Containers)

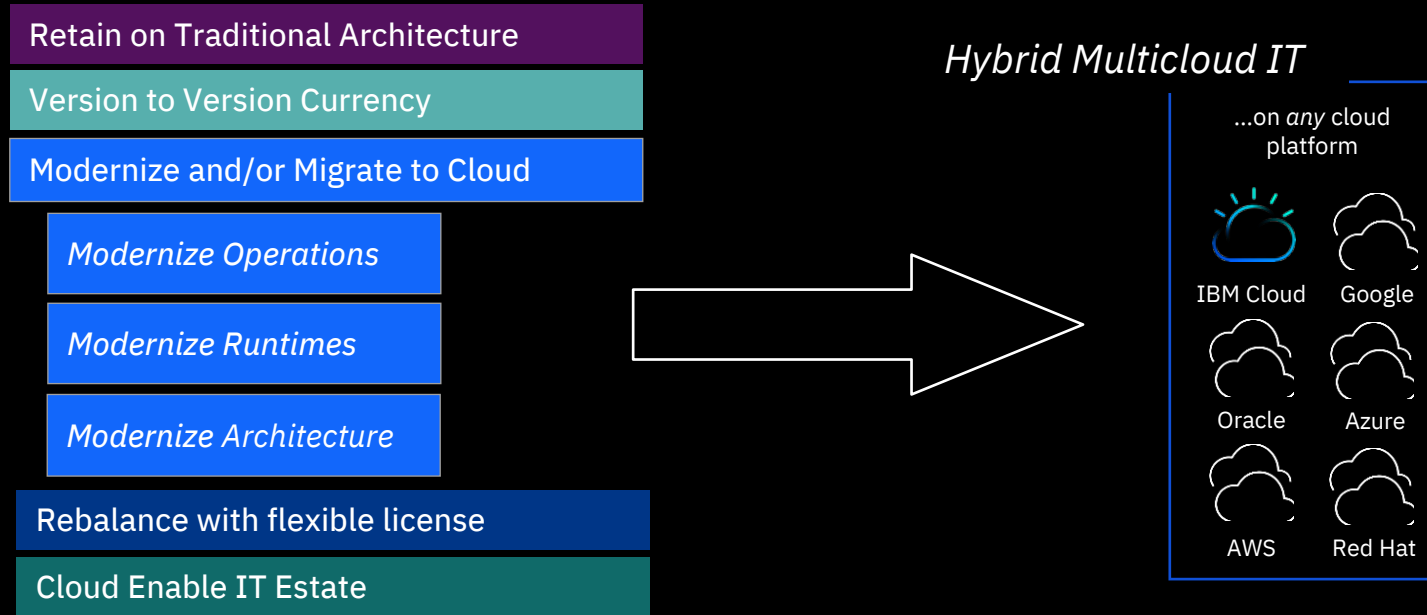
Application Portability (Containers)

Faster, more Consistent Deployments (Containers)

Improved Business Agility (Microservices)

Unlock: Modernize and leverage existing investments

How do you choose the optimum approaches for your organization's needs?



A major US healthcare provider

Modernization led to optimized resource usage by 75% and reduced infrastructure footprint by 50%

Achieving operational efficiency & cost benefits

Business Challenge:

A major US healthcare provider wanted to increase operational efficiency and cost benefits while improving application performance by moving closer to cloud native technologies and techniques and leveraging a lighter weight runtime.

Solution:

Migration Overview

- Moved to WebSphere Liberty & Java 8 on VMs
- Re-wrote some legacy pieces of the app

Next Steps:

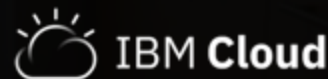
- Analyze & move more traditional WAS ND apps to Liberty
- Adopt container management platform

Outcome:

- Lower licensing costs
- Infrastructure consolidation
- Streamlined deployment
- Dynamic scalability
- Improved application performance
- Cloud/Container ready

Solution Components:

- IBM WebSphere Liberty



WebSphere Liberty



Supports Java EE, great for monoliths and microservices, ideal for modernization

Why Liberty?

Higher scalability
Increased security
Lower overhead

**Potential 158% ROI
over three years***

Just enough runtime	→	80% disk and 56% memory saving
Low operating cost	→	4x increased density over Tomcat & Spring Boot
Continuous delivery	→	Zero-effort security fixing & zero technical debt
Zero migration	→	100% v2v & fixpack migration saving
Kubernetes optimized	→	Self-tuned optimal perf, production-ready, kube-native
Developer experience	→	Container & kube-native experience, rapid inner loop

Transformation Advisor

Available now. Enhancements available in WebSphere Hybrid Edition

Quickly evaluates on-premises Java EE applications and messaging infrastructure to accelerate deployment of Liberty or WAS Base in containers on private or public cloud

Introspects deployments to determine complexity of modernization

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

More Info: <http://ibm.biz/cloudta>



Latest Enhancements

- Analyzes WebSphere deployments on z/OS
- Supports traditional WebSphere Application Server base in containers
- UI performance improvements and multi-language support (15 languages)
- SDK capability to facilitate familiar TA modernization experience for any middleware e.g. IBM Integration Bus

