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
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

<table>
<thead>
<tr>
<th><strong>Optimize</strong> applications and operations to lower costs and increase efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Leverage and right size existing entitlements</td>
</tr>
<tr>
<td>- Run existing apps with ultimate flexibility</td>
</tr>
<tr>
<td>- Mix and match, scale up or down as you modernize</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Unlock</strong> savings and new value through modernization</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Leverage existing investments as you modernize applications</td>
</tr>
<tr>
<td>- Empower teams to start modernizing quickly with increased productivity through market-leading tools</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Cloud enable</strong> your IT estate with enhanced operations and AI-infused guidance and automation</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Realize operational benefits of cloud and containers</td>
</tr>
<tr>
<td>- Broadest range of supported, container-ready runtimes for hybrid multi-cloud</td>
</tr>
<tr>
<td>- Infuse security and operational insights</td>
</tr>
</tbody>
</table>
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

- Cost Reduction through software license savings
- Operational Efficiencies by moving to lighter-weight middleware offerings
- Readiness for container-based architectures and microservices

Modernization

- Cost Savings through improved hardware density (Containers)
- Application Portability (Containers)
- Faster, more Consistent Deployments (Containers)
- Improved Business Agility (Microservices)

Desired Outcomes

- Selecting the right profile and edition of WAS
- WAS Hybrid Edition
- Containers and Microservices

Diagram:

- Right-Sizing
- Modernization
- Desired Outcomes
Unlock: Modernize and leverage existing investments

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

- Retain on Traditional Architecture
- Version to Version Currency
- Modernize and/or Migrate to Cloud
  - Modernize Operations
  - Modernize Runtimes
  - Modernize Architecture
- Rebalance with flexible license
- Cloud Enable IT Estate

Hybrid Multicloud IT...on any cloud platform

© 2020 IBM Corporation
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
Why Liberty?

Higher scalability
Increased security
Lower overhead

Potential 158% ROI over three years*

Just enough runtime
Low operating cost
Continuous delivery
Zero migration
Kubernetes optimized
Developer experience

80% disk and 56% memory saving
4x increased density over Tomcat & Spring Boot
Zero-effort security fixing & zero technical debt
100% v2v & fixpack migration saving
Self-tuned optimal perf, production-ready, kube-native
Container & kube-native experience, rapid inner loop

*The Total Economic Impact™ Of IBM WebSphere Liberty: A Forrester Total Economic Impact™ Study Commissioned By IBM September 2018
IBM Cloud

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.


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