

# A guide for immediate savings and quick ROI with **IBM WebSphere**

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

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



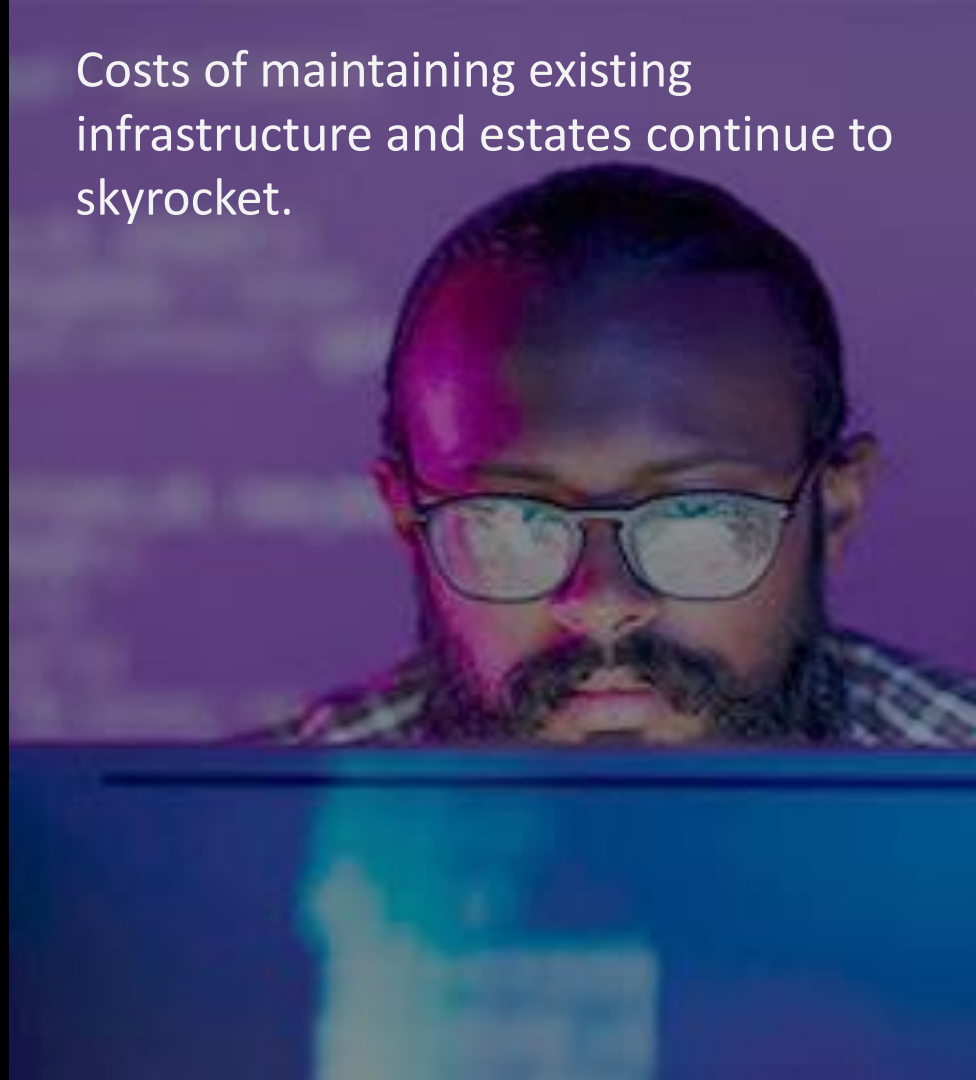
*“Our WebSphere operations are complex”*

*“Lack of cloud skills across infrastructure and architecture is a huge challenge”*

*“We can’t even start innovation projects that would help the organization face challenging times like these”*

*WebSphere Customers, 2020*

Costs of maintaining existing infrastructure and estates continue to skyrocket.





Left alone

40%

IT budget consumed by technical debt compounding through 2025  
(Gartner)

IDC FutureScape: Worldwide IT Industry 2020 Predictions, Doc #US45599219, Oct 2019  
Gartner: Application Modernization Should Be Business-Centric, Continuous and Multiplatform 15 August 2019, ID G00430084

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

How do you break through to innovation?

A futuristic digital landscape with glowing blue and red lines and a wireframe building. The scene is set against a dark blue background with vibrant, glowing lines in shades of cyan, blue, and red. On the left, a large, multi-story building is rendered as a wireframe grid. The overall aesthetic is high-tech and digital, suggesting a focus on IT infrastructure and modernization.

Rx

**Immediate optimization,  
achievable modernization  
steps, flexibility of licensing and  
deployment options across  
existing and future IT estates**

This approach reduces costs immediately, extends the life of existing investments, and keeps the organization focused on maximizing ROI while setting them up for modernization success.

# A Guide For Immediate Savings

## IBM Cloud Pak for Applications and WebSphere are the destinations for application workloads

- All of the capabilities and technologies needed for application and operational optimization, modernization and cloud enablement of your existing and future IT estates
- Simple, ratio-based deployment flexibility
- Run existing and new workloads side-by-side as you transition to containers

## IBM Cloud Pak for Applications and WebSphere Platform

- WebSphere Application Server | WebSphere ND | WebSphere Base | Liberty Core | Open Liberty
- Red Hat OpenShift and Red Hat Runtimes
- IBM Modernization & Developer Tools: Transformation Advisor | Mono2Micro | Application Navigator | WebSphere Migration Toolkit

## Benefits

- Protect existing WAS investment
- Mix and match programs needed and change the mix over time
- Subscription benefits include lower initial acquisition costs and customers pay for use rather than pay for support and updates
- Provides everything needed to begin or accelerate the modernization journey – recommendations, reports, artifacts
- Deploy WAS VM and container-based workloads side-by-side with ratio-based flexibility
- Transition to cloud at your own pace!

# WebSphere standard support 2030

## Stability & Longevity for Existing Workloads

Run existing workloads

No need to migrate

More time to modernize

Stay the course on key priorities

From 8.5.5 to 9.0.5

Committing to broader transformation goals – data, cloud, agile

Version	Release Date	Standard Support (with IBM JDK 8)	Extended Support (with IBM JDK 8)
WAS 8.5.5	2012	2030	2033
WAS 9.0.5	2017	2030	2033



IBM will provide standard support for WebSphere Application Server versions 8.5.5 and 9.0.5, with IBM JDK 8, through at least 2030. For WAS 8.5.5 and WAS 9.0.5 - WAS ND, WAS (Base) and WAS Family Edition.

# WAS 9.0.5

## *Operational modernization begins here*

- Simplified app-centric management for hybrid deployments
- Proactive problem determination with logging & monitoring
- Replaces the scheduled 9.0.0.12 fixpacks

## WebSphere Application Server ND 9.0.5

Prepare for a container/cloud future and move when you are ready

### Hybrid Deployment components:

- Operational and application navigation
- Logging and Monitoring
- Transformation Advisor
- Metering



### Application Navigator

Visibility, problem determination, and contextual actions across VMs & containers

## WAS 9.0 Service Clock Reset

Transitions take time, transform at your own speed with support through at least 2030

Standard support through at least 2030, with optional extended support for +3 years



# Right-Sizing and Modernization

## *Two Complementary Value Streams*

Right-Sizing

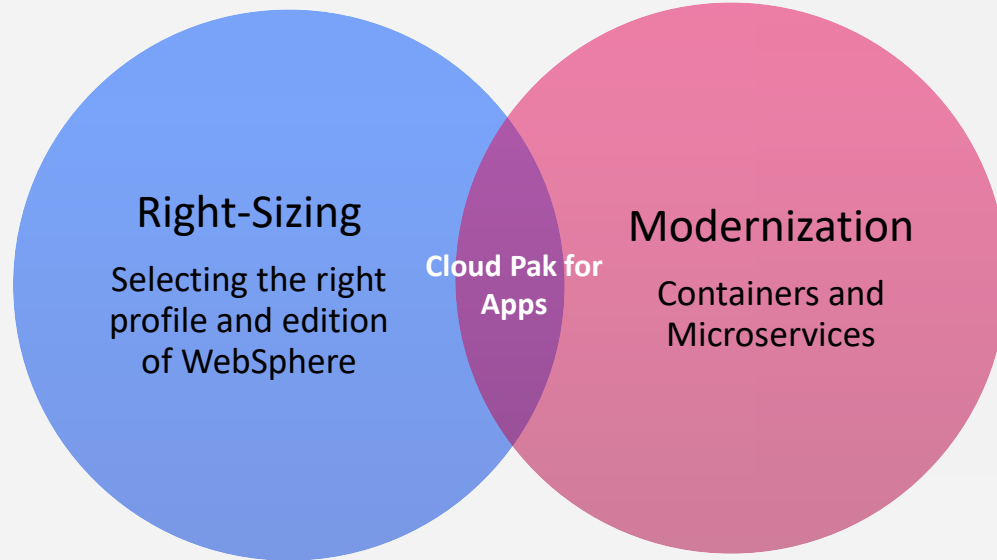
Desired Outcomes

Modernization

Cost Reduction through software license savings

Operational Efficiencies by moving to lighter-weight middleware offerings

Readiness for container-based architectures and microservice



**Right-Sizing**  
Selecting the right profile and edition of WebSphere

**Modernization**  
Containers and Microservices

Cloud Pak for Apps

Cost Savings through improved hardware density (Containers)

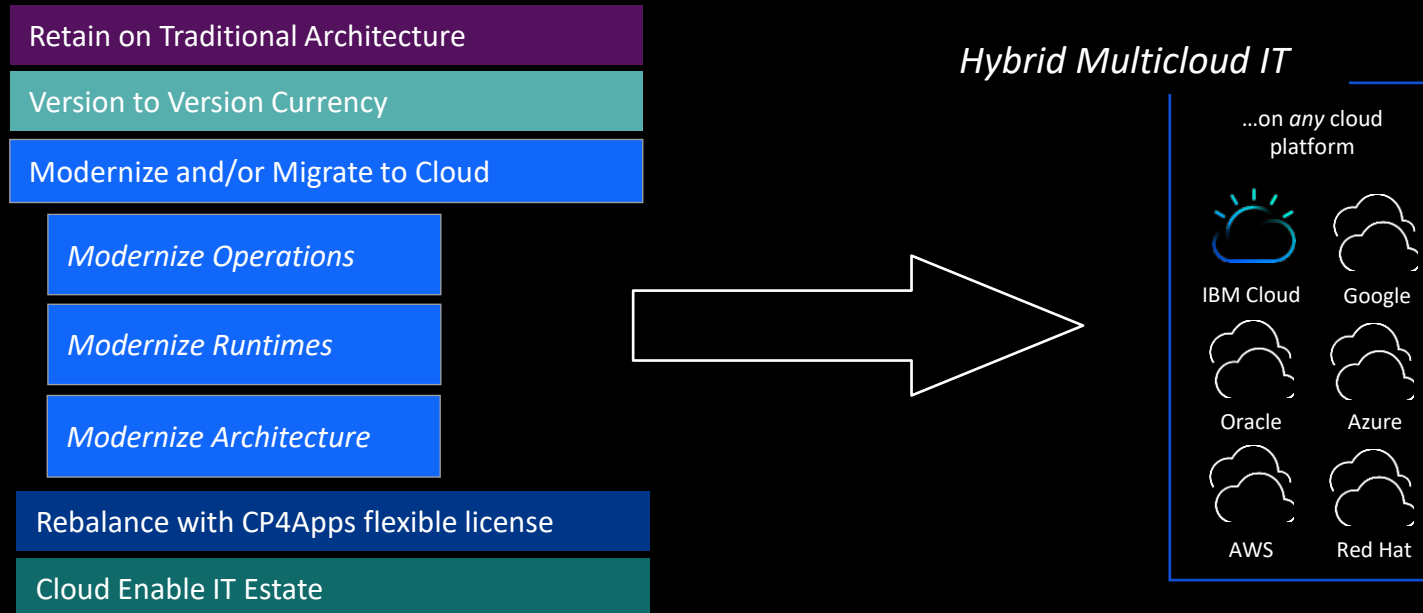
Application Portability (Containers)

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?*



# WebSphere Modernization Value Comparison

	Modernize Operations	Modernize Runtimes	Modernize Architecture
Value			Cloud Native
			Agile Delivery
		Cloud Enabled	
		Cost Savings	
		Technical Debt Reduction	
		Flexible Deployment	
Recommended End State	Application	Application	Microservices
	tWAS	Liberty	Liberty
	Containers	Containers	Containers
Mod Tools	Transformation Advisor		Mono2Micro (beta)

■ New  
■ Existing

# 6 Reasons Why WebSphere Liberty

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

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

Higher scalability  
Increased Security  
Lower overhead

Potential 158% ROI over three years

# IBM Modernization Tools

## Transformation Advisor

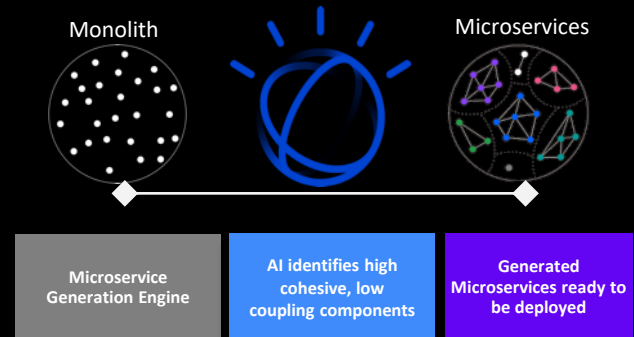
- Accelerate deployment of Liberty or WAS Base in containers on private or public cloud with quickly evaluations of Java EE applications and messaging infrastructure
- Analyze deployments with ease to determine complexity of modernization, including z/OS
- Obtain detailed reports, generate artifacts, and automate deployments for simple application modernization
- Facilitate a familiar TA modernization experience for any middleware with SDK capability e.g. IBM Integration Bus

## Mono2Micro

(beta)

Accelerate modernization by automating the process of application refactoring with AI-powered:

- Recommendations
- Semantic analysis
- Code portion needed for refactoring



# Application Navigator

Available now in WAS 9.0.5

*"I have too many views, from too many tools, with too many inconsistencies - making it difficult to determine the root cause of an issue or get the information I need to make decisions." – WAS customer*



ICP Console  
and Resource



Liberty Admin Center



Grafana Metric Views



Kibana Log Views



WAS Admin Console

- Single Pane of Glass to see all your apps and environments across Cells, Collectives and Containers
- Easy to install, no-charge component of WAS ND
- Smart actions to access the tools you need

Status	Name	Kind	Namespace	Platform	Action
Normal	<a href="#">loyalty-level</a>	Deployment,Liberty	default	Kube	
Normal	<a href="#">notification-service</a>	Deployment,Liberty	default	Kube	
Normal	<a href="#">notification</a>	Deployment,Liberty	default	Kube	
Normal	<a href="#">stock</a>	Deployment,Liberty	default	Kube	
Normal	<a href="#">stock-queue</a>	Deployment,Kubernetes	default	Kube	
Normal	<a href="#">loyalty-level-ingress</a>	Ingress	default	Kube	
Normal	<a href="#">notification-ingress</a>	Ingress	default	Kube	
Normal	<a href="#">portfolio-ingress</a>	Ingress	default	Kube	
Normal	<a href="#">stock-quote-ingress</a>	Ingress	default	Kube	
Normal	<a href="#">trader-ingress</a>	Ingress	default	Kube	
Normal	<a href="#">loyalty-level-service</a>	Service	default	Kube	
Normal	<a href="#">notification-service</a>	Service	default	Kube	

# Licensing options

## License and Support

(Perpetual Licenses)

“Buy”

### • License and Support (Perpetual License)

- Non-expiring license to use the software
- Annual renewal payments for maintenance (software subscription) and support
- Higher initial investment (compared to term options)
- \*May offer the opportunity for different accounting treatment than subscription models

## Monthly Term Licenses

(Uncommitted Monthly Term)

“Rent”

### • Monthly Term Licenses

- Renewable monthly license, including right to use the software plus maintenance and support during the coverage period (no ongoing right to use)
- Allows for shorter-term rentals – ideal for temporary or seasonal spikes in usage (“bursting”) to augment other license types
- Higher annual cost than annual subscription (Committed Term)
- Can renew, modify size, or terminate contract at renewal date

## \*Subscription\*

(Committed Term Subscription)

“Lease”

### • Subscription (Available on IBM Cloud Pak for Applications)

- Renewable annual license, includes the right to use the software plus maintenance and support during the coverage period (no ongoing right to use)
  - Note that contract minimum is 12 months, but flexible terms of up to 60 months are available
- Lower initial investment than perpetual licenses, lower annual cost than monthly term
- Can renew, modify size, or terminate contract at renewal date (quantity fixed during term)
- Predictable annual billing during term for budgeting license renewal fees
- Available as an upgrade from traditional software S&S for selected programs

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





# Next Steps

## Register

- Virtual Hursley Summit Americas  
Nov 4-6  
[hursley-summit.eu-gb.mybluemix.net](https://hursley-summit.eu-gb.mybluemix.net)
- Weekly optimization, modernization and cloud enablement webinars focused on WebSphere applications  
[ibm.biz/ApplicationsThursdays](https://ibm.biz/ApplicationsThursdays)

## Get Started

- Schedule a free 30-minute consultation  
[ibm.com/cloud/websphere-application-platform](https://ibm.com/cloud/websphere-application-platform)

# Thank you

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