

# Modernize Your Mainframe Technologies to the AWS Cloud

**MIGRATE TO THE CLOUD FASTER WITH TSRI'S REUSABLE AND SCALABLE SOLUTION**

## Migrate Your Valuable Mainframe Technology with TSRI

As a certified AWS Mainframe Migration Competency partner, TSRI engineers and architects quickly migrate mainframe software to the cloud with 99.9X% automated modernization and refactoring. TSRI's model-driven and scalable solution transforms applications to cloud-native applications on AWS. It also modernizes large applications and portfolios written in more than 35 different languages, including COBOL, PL/1, JCL, Ada, MUMPS, and even Java or C# into modern applications in cloud-native target architectures. The output is a multi-tier application that takes advantage of cloud services and utilities with high availability and scalability.



The United States Air Force required system modernization with no loss in functionality, no loss of performance, and adherence to price and schedule. Throughout the project, **TSRI proved to be an optimal partner** who delivered on-time, on-budget, and to spec. They made the modernization process easy from start to finish.

Paul Saladna,  
Associate Director and  
Enterprise Architect, NTT DATA



### **RAPID, AUTOMATED, AND LOW RISK**

Reach your desired target, code quality, and maintainability in native, license-fee-free code with a modern cloud-native architecture.



### **FULL DOCUMENTATION OF SOURCE AND TARGET CODE**

Detailed code-level UML blueprints provide insights into legacy code and serve as a baseline for knowledge transfer and maintenance while reducing O&M expenses for the modernized application code.



### **DATABASE MODERNIZATION**

TSRI transforms legacy databases into modern, dual-layer relational databases. This methodology allows for a gradual migration and deployment of functionality, users, and database areas, reducing overall risk and achieving early success.



### **MINIMIZING BUSINESS DISRUPTION**

Modernized applications retain all business logic. Functionality retains the same look and feel, which means existing users won't need to be retrained.

## PROJECT SNAPSHOT

# COBOL to Java – U.S. Air Force Standard Base Supply Systems (SBSS) ILS-S Modernization

TSRI and partners modernized the U.S. Air Force's 50-year-old SBSS logistics system, labeled "The Beast," to the AWS GovCloud.



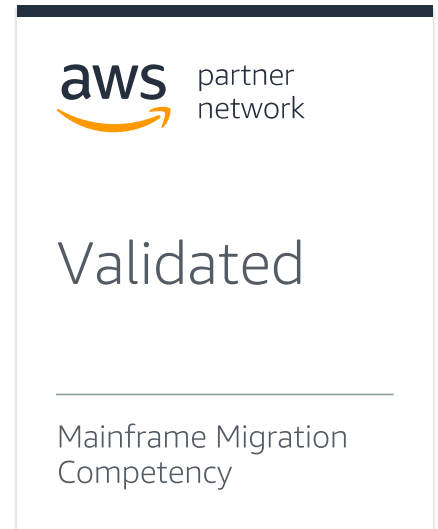
[SEE THE CASE STUDY](#)



## Migration to AWS with TSRI

TSRI has extensive experience in all forms of legacy code transformation, including migration to cloud services. TSRI can move currently modernized applications to the cloud using cloud-specific refactorings such as targeting services, microservices, and containerization. TSRI's migration services take a three-step approach:

- 1 MIGRATE LEGACY MONOLITHIC CODE TO A SERVICE-ORIENTED ENVIRONMENT**  
This includes updating language from COBOL to Java or JavaScript, changing databases, and enabling microservices. At this step of the process, the migration would also begin to abstract underlying services from the application.
- 2 INTEGRATE SERVICE-ORIENTED APPLICATIONS WITH NATIVE CLOUD SERVICES**  
This could include reorienting code from legacy platforms such as WebSphere DB2 to Apache Tomcat and Amazon RDS. Upgrading to incorporate the latest native architectural interfaces ensures that applications will tightly integrate with the new environment as well as simplify future updates.
- 3 TRANSFORM NATIVE CLOUD TO DOCKER OR KUBERNETES CONTAINERS AND LAMBDA/API GATEWAYS**  
The movement to containers provides additional architectural abstraction and improved integration of applications within the cloud.



**Ready to modernize?** Get in touch with us to get started!



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