A major agency in the U.S. Intelligence Community contracted us to modernize a system of applications that were in various levels of DevOps maturity as well as provide ongoing Operations and Maintenance for the applications being migrated.

Northrop Grumman provided full lifecycle development and sustainment services via a contract for a large portfolio of applications/systems we manage. We transformed applications into a modern microservice based architecture that consolidated and refactored numerous stove-piped applications and databases. The emphasis during modernization was to first fully automate everything in a consistent manner – build, integration, testing, deployment, and monitoring. The second emphasis was on technology including containerization and microservice componentization, de-duplication via shared services and approved container images, and Cloud adoption.

We followed our proprietary portfolio transformation methodology along with the AWS Well Architected Framework best practices throughout our migration lifecycle. We achieved a high degree of automation through the implementation of a Continuous Integration/Continuous Delivery (CI/CD) pipeline leveraging industry standard tools that are pre-certified for our use as part of the customer’s tool suite.

The results for the customer from the system’s modernization and utilizing our DevOps implementation has successfully improved the security, performance, cost-efficiency, resiliency, and frequency of releases. Regression testing is now done in minutes through automation which previously took days and the results of this automation has led to a dramatic reduction in maintenance costs and a high level of customer satisfaction.