NG helped a major DoD customer establish DevOps Best Practices in the AWS GovCloud

Our DoD customer contracted us to consolidate and migrate over 40 business capabilities to the cloud. All of the applications were separate builds using disparate resources with no coordinated development cycle and lacked visibility into the build/test/deploy pipeline. After migrating to the cloud, the customer asked for refactoring to leverage shared services, and techniques to improve the security, repeatability, timeliness, and visibility of development iterations. The customer also desired efficient and effective patch cycles to keep security findings at a minimum and optimize costs. In addition, the customer had concerns about vulnerabilities from open source libraries as its use had grown across the portfolio.

We performed an AWS Well Architected Review (WAR) to fully understand the system, operations practices, and identify gaps. DevOps was one of the focus areas that benefited from the WAR. Additional improvements were implemented across the five well architected pillars.

Over the course of three years, the customer’s infrastructure has migrated from data center managed servers to the cloud with EC2 instances including full serverless capabilities which don’t require team resources to monitor and manage.

Our DevOps solution has successfully improved the security, repeatability, resiliency, timeliness, and visibility for the customer. After exceeding customer expectations, in 2019, Northrop Grumman was recognized with a prestigious DoD award for excellence.