SAIC DevOps

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Federal agencies are adopting Agile and DevOps software development as part of their digital transformation journeys. However, they must contend with legacy systems, non-standardized IT environments, and entrenched cultures. SAIC offers a portfolio of DevOps services and solutions that helps customers overcome these challenges and embrace automation and cloud services.

Overview

DevOps is a cultural and professional movement that emphasizes increased collaboration and integration between software development teams and data center operations groups.

The goal of DevOps is to deliver working, high-quality, and secure applications to the enterprise more quickly and frequently. DevOps aims for shorter development cycles, more reliable releases, and higher deployment frequencies. It encourages collaboration and advocates increased automation at all steps of the software development life cycle (SDLC).

We recognize that for DevOps to work successfully, organizations need to embrace cultural transformation. From our years of experience in helping large organizations with change adoption, we have harvested a repeatable change management process based on academic research and practical knowledge. The process provides consistent and effective results with lower risk for customers.

SAIC DevOps takes a lean approach to driving productivity and efficiency, by automating the customer's software delivery pipeline. Our fully automated continuous integration/continuous delivery (CI/CD) pipelines use purpose-built, open-source, and market-leading commercial tool stacks.

SAIC has embraced DevOps as an enabling capability in our own organization. Through cultural, organizational, and technical innovations, we help customers transform their SDLCs for speed, agility, and cost savings.

Tools and Technologies

SAIC DevOps leverages technology in the pipeline wherever possible to streamline delivery and minimize human error, resulting in higher productivity, consistency, and performance. This includes test automation tools that support test-driven development, as well as containerization techniques that enable pipeline automation and use of stateless designs plus identical development environments and stacks for developers to work with.

SAIC has invested a significant amount of internal resources toward researching, prototyping, and integrating the best tools and techniques for test and release automation in cloud-based DevOps. These investments have resulted in optimized, pre-engineered templates that utilize infrastructure as a service, infrastructure as code, and platform as a service. We are able to pass implementation cost savings to customers.

We work closely with each customer to identify the tools and technologies that best fit its IT strategy and goals. We have strong strategic alliances with leading DevOps tool vendors and work closely with them to down-select a customer solution that meets strategic objectives and technical requirements while optimizing implementation and O&M costs.

SAIC combines deep understanding of customer missions and technical expertise with the AWS cloud platform to stand up effective cloud-based DevOps environments. Our DevOps transformation solutions and services cover all stages from strategy, to implementation, to operations.

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The SAIC Difference

SAIC has embraced DevOps as an enabling capability in our own organization and is committed to bringing DevOps' benefits and value to customers. We have successfully implemented DevOps environments for a range of federal agencies by tailoring our repeatable approach to meet their unique challenges and opportunities. Our DevOps Maturity Model helps organizations assess their readiness for DevOps and provides a roadmap for adoption. We evaluate them on a scale for agility, automation, measurement, leadership, and culture.

SAIC helps organizations adopt DevOps development environments and cultures through the combination of ingenuity, a repeatable approach with highly collaborative and customizable frameworks, and best-in-class technologies for converging software development, quality assurance/test, and IT operations into seamless and cohesive teams.

Our approach removes barriers between all stakeholders in software development and IT operations and promotes daily interaction with the customer and its end users. SAIC DevOps adds value for organizations just starting out on their DevOps journeys and seeking to automate deployment of application stacks in a single environment, for those looking to automate deployment as part of an integrated tool chain, and for those seeking to optimize public cloud-based or hybrid cloud-based software pipeline management.

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