

# DevSecOps Services

*Focusing on Secure Design,  
Development, and Delivery*



For many organizations, implementing a DevOps (Development/Operations) mindset involves “bridging the gap” – or removing silos between software development and IT operations teams; often with the goal of being able to release software faster, and with greater stability. DevSecOps is an extension of the DevOps mindset and offers the benefit of including security in the software development lifecycle, rather than tackling security reviews at the end of the cycle, when any findings requiring resolution are more difficult and costly to implement.

The greatest challenge organizational leaders face today is often the cultural change required to get all of the process owners to think outside the legacy process box they find themselves in – this includes putting development, security, and operations as standalone components.



## JSL's DevSecOps Approach

**Jazz Solutions, Inc. (JSL) uses DevSecOps and Agile for harnessing integration, interaction, and innovation. At JSL, our approach to DevSecOps includes “building quality in” by integrating security measures into all stages of the DevOps channel – a shift left approach; this includes integrating security into our development processes and automation of all possible processes.** For example, security scanning is incorporated into our build pipelines allowing development teams to see security results and immediately resolve issues. In addition, when possible, development teams build on reusable hardened images and components, which decreases development time and effort thereby significantly increasing the software product’s quality and security posture.

The **benefits** JSL customers receive from our DevSecOps expertise include:

- **Faster and more efficient software development**
- **Automatic securing of code**
- **Continuous security enablement**
- **Continuous integration, testing, and monitoring that reduces risks, improves security, and maintains high quality.**

As part of our DevSecOps playbook, JSL utilizes automated testing to catalog and re-run repeatable testing tasks. **This forward-thinking approach increases the productivity of testing activities and identifies defects early in the development cycle.** Our DevSecOps services are designed to maximize the benefits of agile development while maintaining the highest standards of security.

## Solution Offerings



### Secure Software Development

JSL offers secure software development services that are designed to reduce the risk of cyber-attacks and ensure the confidentiality, integrity, and availability of our customer's business-critical applications.



### Continuous Integration and Continuous Delivery

Our team of experts implement CI/CD pipelines that ensure our customer's applications are delivered with speed and agility.



### Infrastructure as Code (IaC)

JSL uses IaC practices to manage and provision infrastructure using code. The benefits are numerous and include increased efficiency, improved consistency and reproducibility, greater collaboration between development and operations teams, and increased security and compliance through automation.



### Threat Modeling and Risk Assessment

Throughout the stages of planning, development, and operations JSL's Security Team experts identify potential threats and vulnerabilities in applications and implement strategies to reduce the risk of cyber-attacks.



#### JSL DevSecOps Toolkit

- GitLab Ultimate
- Aqua
- Amazon Inspector
- AWS CodeBuild
- AWS CodePipeline
- Platform One
- Iron Bank

#### Experience Customers Trust

JSL developed a DevSecOps playbook for the Federal Student Aid's (FSA) Student Aid and Borrower Eligibility Reform (SABER) Program. This is a consolidation of private and public industry DevSecOps best practices. Guidance has been tailored based on various expectations, such as leveraging cloud computing and container technology.

## JSL Customers & Citizens Served Today



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# JSL Delivers - Customer Stories



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## U.S. Department of Education, Federal Student Aid (FSA) Federal Taxpayer Information (FTI) Module Support Services

The FTI Module application provides the interface between FSA systems and the Internal Revenue Service for data sharing. It also performs financial calculations for federal student aid eligibility and determination. JSL is the prime contractor delivering the FTI Module services that include business analysis, technology development, cloud hosting environment build out, system quality testing, and system security implementation and monitoring.

**Critical to the development of the FTI system was the development and adoption of DevSecOps processes and infrastructure.** This implemented **discipline** and **repeatable** processes on the overall FTI program. As a result, **JSL's DevSecOps approach has increased the FTI Module development efficiencies and improved security.**

- The JSL FTI Module team makes use of AWS CodePipeline to fully automate the application release process, as well as the infrastructure release process. Using separate pipelines to manage the application build process, as well as the infrastructure build process, allows JSL to fully automate the build, release, and deploy process.
- The FTI Module leverages capabilities from the Department of Defense's (DoD) Platform One (P1) to help manage software factories. P1's Iron Bank provides the foundational Docker images used in building all FTI Module Docker images.
- Integrating Infrastructure as Code (IaC) into the overall DevSecOps frameworks allows for the creation of reusable components that can be deployed to multiple environments as changes are implemented and potentially as part of application releases.
- As part of the deployment pipeline, JSL is implementing code quality analysis, malware, and vulnerability scanning to further mature the DevSecOps infrastructure.



## U.S. Department of Labor, Employee Retirement Income Security Act (ERISA) Filing Acceptance System II (EFAST2)

JSL is a subcontractor to General Dynamics Information Technology on the EFAST2 contract, which provides a 100% web-based system to support the critical business process of filing, processing, and making available the ERISA filings. JSL provides implementation and O&M services for the EFAST2 environment, including infrastructure (in FedRAMP AWS Cloud), operating systems, COTS products, and custom code. We also provide product enhancements; system architecture, engineering, building, testing and deployment support; application monitoring and management services; security support services; and application and integration support.

The JSL EFAST2 team led the transition to Amazon Web Services (AWS) cloud technologies including Elastic Container Service (ECS), AWS Auto Scaling, AWS API Gateway and others. **JSL also led the implementation of EFAST2 DevSecOps procedures utilizing ECS, Docker, CodePipeline, and CloudFormation.**



## About JSL

Founded in 2013, **Jazz Solutions, Inc. (JSL)** is an economically-disadvantaged, woman-owned, SBA certified 8(a) small business serving federal, state, and local governments. Our headquarters is located in Ashburn, Virginia; JSL has other office locations in Virginia (Virginia Beach), D.C, and Maryland.

JSL designs and manages solutions customized to each customer's unique mission and business objectives. We understand there is not a "one size fits all approach" to customer success. **Our project experience ranges from assigning a single, specialized subject matter expert to large-scale mission-critical system deployment affecting nearly a quarter of a billion citizens.** We successfully serve our customers by customizing solutions that blend industry best practices, emerging technology, high caliber professional talent, and more than a decade of gained experience. **Currently, we are leading 20 prime contracts and supporting large systems integrators on another dozen high-profile programs that are delivering meaningful results through technical and management advisory, system and application development and integration, identity and access management, and cloud services, to name a few.**



The result of our customer engagement includes award-winning products, 100 percent positive CPARS, and lasting partnerships built on trust and success.

## Jazz Solutions Contact Information



Dustin Hoover,  
Chief Growth Officer



Jeff Goldhirsch,  
Chief Technology Officer



Kristen Larson,  
Chief Executive Officer

Solutions@jazzsol.com  
www.jazzsolutions.com

20745 Williamsport Place, Suite 320,  
Ashburn, VA 20147