

DevSecOps Buyer's Guide for Government

Discover Innovative DevSecOps Solutions for Continuous
Compliance and Accelerated Secure Software Development
in the Public Sector

*FEATURING: Use Cases • Success Stories
Government Software Factory Ecosystem*

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FOR ATTENDING!

Carahsoft DevSecOps Conference 2024

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Welcome to the DevSecOps Buyer's Guide for Government!

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Being large doesn't have to mean being slow. As our government evolves into a software-oriented entity, the demand for rapid, secure service delivery is more critical than ever. DevSecOps—a blend of development, security and operations practices—has emerged as a transformative approach to software development within the U.S. Government.

The US Air Force's creation of software factories marked the beginning of an era characterized by increasing cybersecurity threats and the need for swift, reliable software deployment. This initiative has since expanded throughout the U.S. Department of Defense, the Intelligence Community, Federal Civilian Agencies, as well as State and Local Governments.

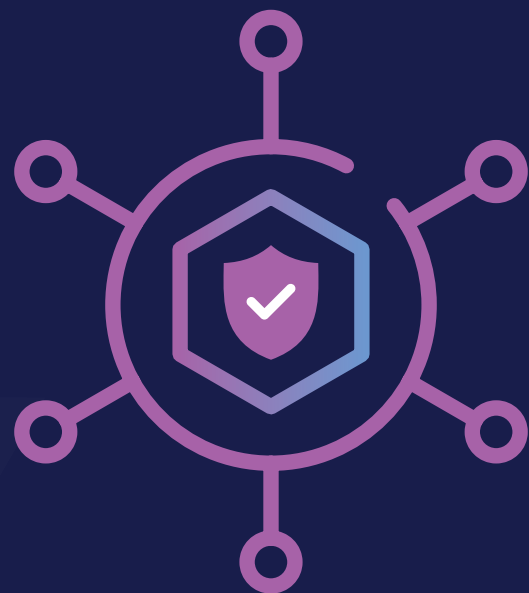
DevSecOps offers a paradigm shift by seamlessly integrating security into the development pipeline. By emphasizing collaboration, automation and continuous monitoring, DevSecOps not only strengthens the resilience of government systems but also promotes agility and innovation. As agencies navigate the complexities of modern technology, embracing DevSecOps principles becomes a strategic imperative for protecting critical infrastructure and ensuring the delivery of secure, robust services to citizens.

This guide will showcase exemplary government case studies and the industry partners that make it all possible.



Rich Savage

Program Executive for DevSecOps, Carahsoft



Secure Your Software Supply Chain

The Rise of the SBOM and the Evolution
of Software Supply Chain Security

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Microsoft DevSecOps: Secure, Compliant, Agile. For Government.

Build secure apps on a trusted platform. Embed security in your developer workflow and foster collaboration between developers, security practitioners, and IT operators.

Learn more: carah.io/MicrosoftDevSecOps





DevSecOps Use Cases

The DevSecOps methodology enables Public Sector development teams to rapidly deploy secure software across any environment while maintaining regulatory compliance. By shifting security left and integrating risk assessments throughout DevOps processes, agencies can continuously monitor code repositories to detect and resolve emerging threats, leading to increased deployments, reduced resources and enhanced security posture.

Carahsoft partners with leading software development companies to deliver innovative DevSecOps tools to Public Sector agencies, ensuring compliance by building security into every phase of the DevOps lifecycle. These cutting-edge solutions facilitate continuous Authority to Operate (cATO) initiatives by enabling collaborative planning, agile code optimization, flexible infrastructure management, automated system testing and vulnerability scanning.

In this section, we cover:

- **Development Tools**
- **Agile Planning**
- **Build & Test**
- **Application Deployment**
- **Continuous Integration (CI/CD)**
- **Cloud Providers**
- **Kubernetes Distributions**
- **Security & Compliance Monitoring**

Scan QR code to learn more Carahsoft's DevSecOps solutions



Development Tools

Development tools offer Public Sector IT teams a way to streamline the creation of new software deployments, improve existing applications and debug issues efficiently. Explore our innovative software development applications to learn how your IT team can quickly build and release mission-critical solutions.

Agile Planning

Agile Planning is a flexible and adaptable approach to managing projects that allows developers to segment tasks into repeatable processes that continuously improve software quality and reduce application development times. Select a leading technology vendor to explore how their agile methods, best practices and tools can help your agency deliver better software faster and more efficiently.

Build & Test

Build and test solutions can help your organization accelerate application development and integrate software testing to deliver reliable, high-quality software that complies with the latest Government regulations. Select a build and test tool below to enhance quality assurance and the reliability of your final product.

Application Deployment

Our application deployment solutions can assist organizations in obtaining accreditation for their software applications. Whether your software runs in a test environment, production environment or a mobile device, the Public Sector must protect confidential data and workflow processes when deploying secure applications. Select a software deployment tool below to scale your agency's agile operations and meet project requirements.

Continuous Integration (CI/CD)

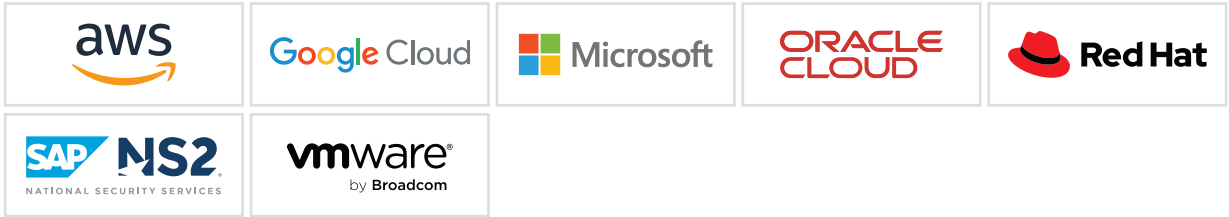
Continuous integration and delivery solutions enable organizations to establish seamless CI/CD pipelines that automate code integration, testing and deployment processes. By implementing continuous monitoring and feedback loops throughout the application lifecycle, development teams can rapidly iterate and efficiently commit high-quality software updates into production. Select a CI/CD tool below to discover how to release best-fit applications across complex operating environments.



Cloud Providers

Our leading Cloud Service Providers (CSP) improve infrastructure performance, flexibility and stability in the Public Sector by hosting secure software applications in multicloud, hybrid and cloud-native environments. Facilitate a seamless IT modernization and select a secure cloud solution below to safeguard sensitive data with robust access controls, encryption and surveillance.



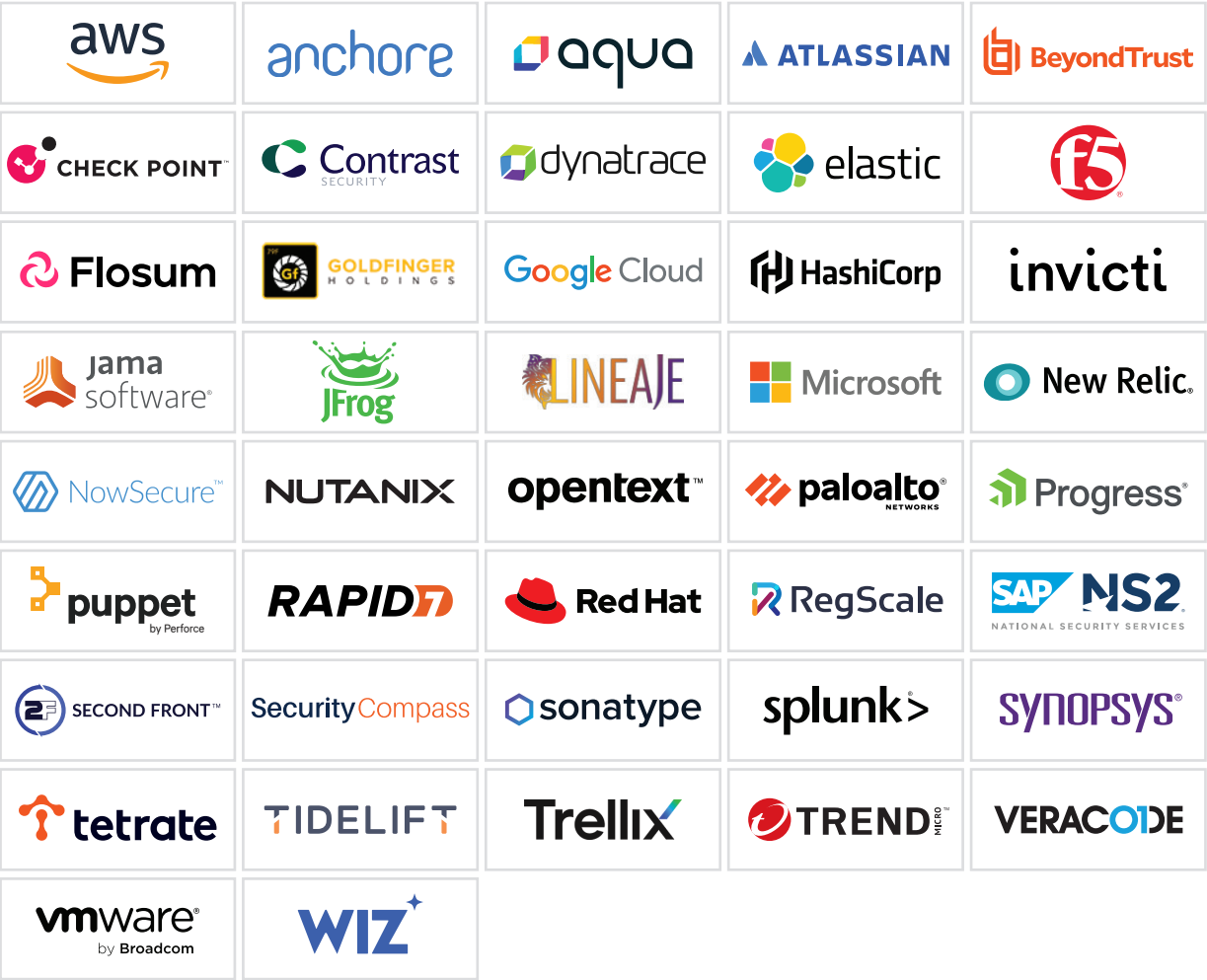
Kubernetes Distributions

Kubernetes is an open source tool that automates and orchestrates containerized application deployments at scale. Unify your software factory with Kubernetes to customize and simplify software deployment and container usage. Select a Kubernetes platform below to securely deploy and manage containers, ensuring the integrity of cloud-native applications.



Security & Compliance/Monitoring

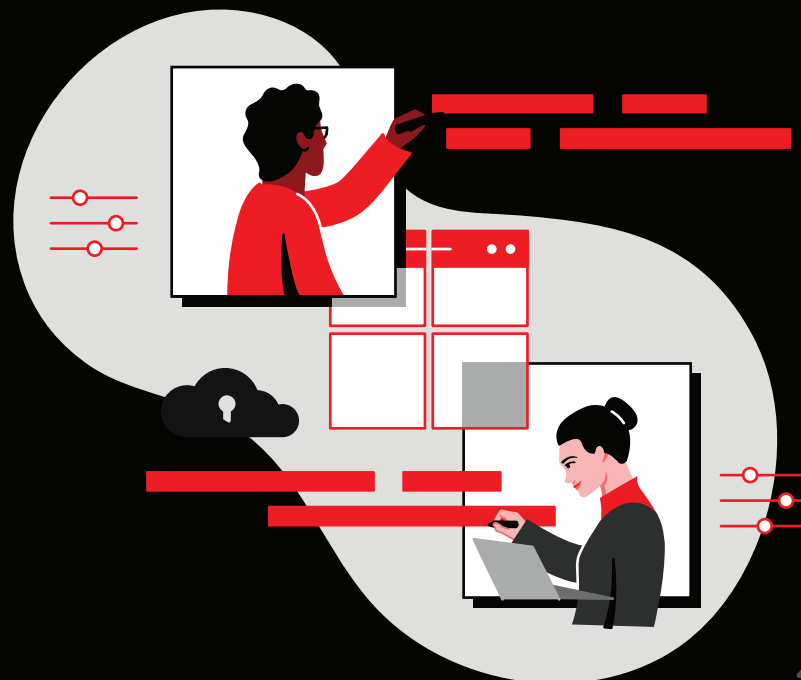
Security and compliance and monitoring systems embed agile security practices into the development process to ensure that applications are more resilient to cyberattacks. Leverage our security expertise to enhance training requirements, threat modeling and code reviews with streamlined monitoring and reporting capabilities. Achieve continuous Authority-to-Operate (cATO) and select an automated IT security compliance tool below to defend your software factories without bottlenecking performance.





5 steps to establish security early in the software development lifecycle

Access the Developer Guide



Mission Success Is Impossible Alone

Unite teams across your program and mission

Empower DevSecOps teams to:

- Break down siloes and foster collaboration across all teams
- Quickly investigate and resolve incidents
- Greatly reduce errors through automatic tracking
- Leverage real-time visibility

 Jira  Confluence

 Jira Service Management



Contract Vehicles

Carahsoft offers several contract options for purchasing DevSecOps solutions. Our contracts offer purchasing options for civilian, defense, state and local government and education customers. Customers can purchase solutions off these major contract vehicles:

Explore the benefits of how you can count on Carahsoft and our Reseller Partners:

- 24x7 availability call us at **888-662-2724**
- Dedicated support specializing in serving enterprise ready solutions
- Ecosystem of value-added reseller partners
- Contract Expertise: We understand your procurement needs and the outcomes you're seeking
- Quick turnaround quote: Get the IT solutions you need with the fast, accurate service you deserve
- Substantial cost savings on DevSecOps products and service portfolio from certified technology brand partners
- Advanced technology solutions including development tools, agile planning, build & test, application deployment, continuous integration (CI/CD), cloud providers and more

DevSecOps Contracts

USAF DevSecOps BOA Contracts

Carahsoft's USAF DevSecOps Basic Ordering Agreement (BOA) contracts helps support the Air Force's Platform One and LevelUp. Carahsoft maintains a cloud contract (FA8307-20-G-0068) and a software contract (FA8307-20-G-0004).

DoD ESI DevSecOps Phase 1

The DoD's Enterprise Software Initiative (ESI) DevSecOps Phase 1 contract helps deliver DevSecOps solutions to DoD customers. Customers can purchase Elastic, Atlassian, and GitLab DevSecOps solutions from Carahsoft off this contract.

DoD ESI DevSecOps Phase 2

The DoD's Enterprise Software Initiative (ESI) DevSecOps Phase 2 contract helps deliver DevSecOps solutions to DoD customers. Customers can purchase HashiCorp, Jfrog, Rancher Government Solutions, and Anchore DevSecOps solutions from Carahsoft off this contract.

Scan to explore why Carahsoft is the top-ranked DevSecOps contract holder



Governmentwide Acquisition Contracts

GSA Multiple Award Schedule (MAS)

Carahsoft holds a GSA Multiple Award Schedule (MAS) that allows customers to procure a wide variety of AI solutions. Carahsoft holds Contract #47QSWA18D008F and allows customers to purchase everything needed to build their DevSecOps ecosystem.

ITES-SW2

The purpose of the ITES-SW 2 acquisition is to support Army, Department of Defense (DoD) and all Federal Agency enterprise Information Technology (IT) infrastructure and info-structure goals by leveraging Commercially available-Off-The-Shelf (COTS) software products and maintenance in 14 product categories in addition to related incidental services and hardware.

NASA SEWP V

The NASA SEWP V GWAC (Government-Wide Acquisition Contract) provides the latest in Information Technology (IT) products and product-based services for all Federal Agencies. SEWP provides the best value and cost savings through innovative procurement tools and processes; premier customer service and outreach; and advocacy of competition and cooperation within the industry.

NASPO ValuePoint Cooperative Purchasing Organization

The NASPO ValuePoint Cooperative Purchasing Organization (formerly WSCA-NASPO) provides the highest standard of excellence in public cooperative contracting. By leveraging the leadership and expertise of all states with the purchasing power of their public entities, NASPO ValuePoint delivers best value, reliable, competitively sourced contracts.

Since 1993 NASPO ValuePoint has been the cooperative purchasing arm of NASPO (the National Association of State Procurement Officials) encouraging, fostering and guiding the nation's most significant public contract cooperative. NASPO ValuePoint is a unified, nationally focused cooperative aggregating the demand of all 50 states, the District of Columbia and the organized US territories, their political subdivisions and other eligible entities spurring best value, innovation and competition in the marketplace.



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SCAN
to learn more





Government Software Factory Ecosystem

A “software factory” is an organized approach to software development that provides software design and development teams a repeatable, well-defined path to create and update software. It results in a robust, compliant, and more resilient process for delivering applications to production.

Government agencies have adopted software factories to both replicate commercial practices and gain a better understanding of the security environment within their software supply chain.

These government software factories were pioneered by the United States Air Force, with the first one, Kessel Run, established in 2017. The Department of Defense (DOD) is the leader in government software factory adoption and is assisting civilian agencies in adopting similar practices.

This guide will cover the different software factories that exist in the government, programs that they may be involved with, major products they have created, and the type of work they engage in.

Scan QR code to learn more about individual government Software Factories



2017

- Kessel Run, the Air Force (and federal government’s) first software factory, is founded at Hanscom AFB with help from the Defense Innovation Unit (DIU).

2019

- The DoD releases their Enterprise DevSecOps Reference Design to lay out the principles and benefits of DevSecOp

2021

- The DoD releases their Enterprise DevSecOps Strategy Guide that describes how the DoD will adopt DevSecOps across the department.
- DoD appoints their first-ever Chief Software Officer.
- The Army and Navy setup their first software factories.

2022

- The DoD releases a new version of their Enterprise DevSecOps Reference Design with a focus on DoD Cloud Infrastructure as Code, Microsoft Azure, and GitHub.
- The DoD releases a memorandum on steps needed for continuous authorization to operate (cATO).

2023

- The DoD releases their Software Modernization Implementation Plan that reinforces the need to build out a software factory ecosystem.

2024

- The DoD releases their Continuous Authorization Implementation Guide that lays out the assessment procedures agencies need to take for cATOs.
- DoD approves reciprocity for ATOs; any issues can be elevated to DoD CIO.



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Platform

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Built for Platform Engineers
Loved by Developers

Tanzu combines **built-in security-enhancing capabilities, policy-based automation, and modern DevSecOps practices** that help platform teams deliver a secure-by-default platform. We help you **shift security left** and allow developers to focus on writing **high quality code**.

With decades of experience with the **Risk Management Framework (RMF)**, Tanzu has worked with government organizations to implement processes and **responsibility matrices** so they can achieve **Authorization to Operate (ATO)** more quickly, meet compliance requirements, and deliver results at **mission speed**.



Implement
DevSecOps
practices
at scale



Meet
compliance
requirements
easily



Deliver
code to
production
safely

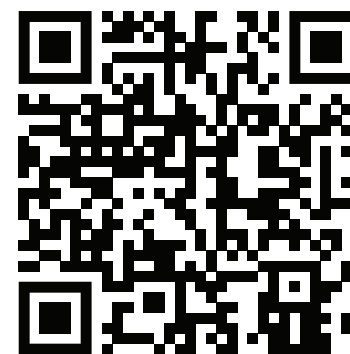


Fix
security
vulnerabilities
quickly

Sample Tanzu outcomes include:

- Preconfigured app templates
- Reporting and code analysis
- SBOM creation and curation
- FIPS 140-2, NIST 800-53, NIST 800-61, SLSA compliance

For more information about
Tanzu's approach to security
and product capabilities visit:



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Ensure the integrity and security of your software delivery process with AWS.
Protect your organization's sensitive data and maintain trust with advanced security.

Scan to learn how AWS is strengthening the DevOps pipeline for Public Sector



We stop cloud native attacks. Guaranteed.

See & stop threats across every phase of your agency's software development lifecycle from code to cloud and back.

**Unleash the Power of DevSecOps.
Stay Ahead of the Attack.**

Here's What You'll Discover in this Guide:

Best Practices: Learn the key elements of successful DevSecOps implementations & get actionable insights you can apply to strengthen your organization's security posture.

DevSecOps Challenges in Cloud Native Environments: Discover the top challenges enterprises face when reimagining their security strategies.

How to make DevSecOps programs effective: Explore real-world examples of how leading organizations have successfully embraced DevSecOps.

Get the Guide:
https://info.aquasec.com/devsecops_framework



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aquasec.com/solutions/federal

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