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Lighthouse Delivery Platform

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Lighthouse Delivery Infrastructure (LHDI)



If you're looking to develop, deploy, and operate high-quality VA APIs and applications, the Lighthouse Delivery Infrastructure (LHDI) has you covered. As an integral part of [VA's Digital Strategy](#), our delivery infrastructure offers a number of key benefits that allow you to reduce costs and effort while increasing software delivery.

Key benefits

Dependable tools and processes vetted by VA

- Includes a robust, compliant, and resilient set of tools to streamline meeting [National Institute of Standards and Technology](#), [Federal Information Security Modernization Act](#), and

continuous authority to operate
(cATO) requirements

- Offers self-service access to an established infrastructure leveraging cloud-native, container, and microservice technologies with an advanced secure release (SecRel) pipeline
- Provides a repeatable, well-defined tools methodology to efficiently and securely build, test, validate, and operate highly available, high-quality systems and services in production

Reduce friction in the development process

- Optimizes [Agile methodologies](#) and DevSecOps through continuous authority to operate (cATO), which provides an efficient alternative to traditional, waterfall methodologies
- Accelerates the authority to operate (ATO) process through an extensive inheritance model that rewards teams for following industry best practices
- Seamlessly integrates development, security, and operations by offering safeguards, monitoring, and real-time feedback spanning the entire software development life cycle

- Automates configuration and deployments—any software version can be deployed on-demand to any environment—with continuous integration, delivery, and security processes

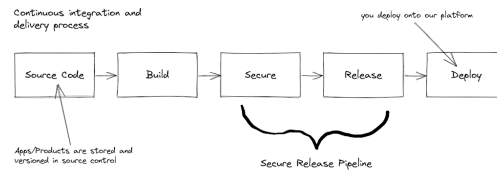
Increase transparency and trust

- Provides default access to all artifacts of the software development life cycle to assessors and cybersecurity personnel for ease of continuous monitoring
- Enables development and security teams to scan early and often for proactive vulnerability remediation
- Reduces the number of security defects by offering visibility to developers through a series of continuous monitoring tools

Methodology

LHDI uses an [Agile methodology](#) that allows us to quickly deliver software through small, incremental changes that are easily shipped into production without sacrificing security and compliance. We do this through a set of vetted tools and processes and by achieving continuous authority to operate (cATO).

Through our [continuous integration](#) pipeline, called the SecRel pipeline, application teams can deliver products into production quickly and safely, with security and compliance addressed in the secure and release stages rather than checking for vulnerabilities all at once.



Architecture

We offer rapid and secure delivery through our modern architecture. At the lowest level, a cloud environment (such as VA Enterprise Cloud) serves as our infrastructure, providing flexible computing and storage capabilities.

Above that is a modern platform, the delivery infrastructure, which comprises a set of tools, development guidelines, and a multi-tenant deployment environment. This provides both operating environments and a secure mechanism for shipping applications.

