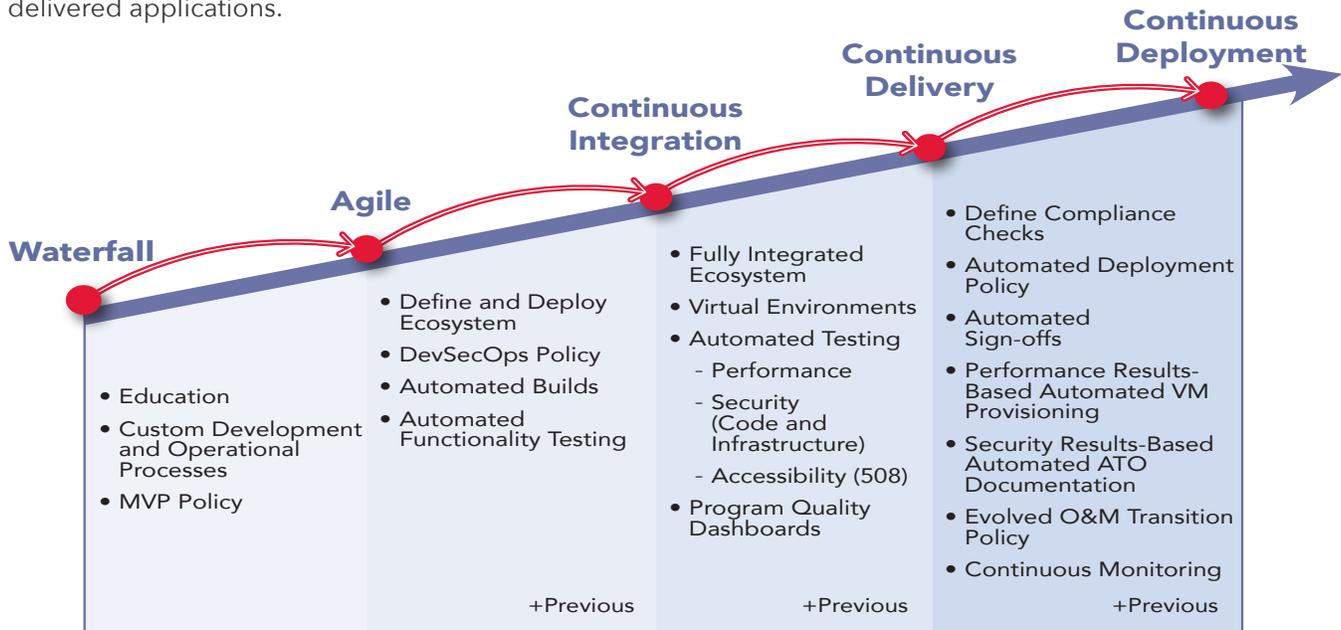# DevSecOps Maturity

Achieving Continuous Deployment

Attain's end-to-end DevSecOps Maturity service offering builds in security from the start and represents a comprehensive approach to evolving from continuous integration to continuous deployment. Leveraging the next generation of DevSecOps, we work with agencies to develop effective strategies and polices, establish collaborative DevSecOps ecosystems, and build robust reporting capabilities for data-driven decision-making and compliance. This approach harnesses the power of highly reliable and scalable automated processes for continuously deploying and monitoring secure, quality applications.

The DevSecOps Maturity Model Journey

Regardless of your current software development and operational practices, Attain can help you advance to more mature processes for greater operational efficiency, increased ROI, better software quality, and enhanced customer experiences from delivered applications.

Waterfall
- Education
- Custom Development and Operational Processes
- MVP Policy

Agile
- Define and Deploy Ecosystem
- DevSecOps Policy
- Automated Builds
- Automated Functionality Testing

+Previous

Continuous Integration
- Fully Integrated Ecosystem
- Virtual Environments
- Automated Testing
  - Performance
  - Security (Code and Infrastructure)
  - Accessibility (508)
- Program Quality Dashboards

+Previous

Continuous Delivery / Continuous Deployment
- Define Compliance Checks
- Automated Deployment Policy
- Automated Sign-offs
- Performance Results-Based Automated VM Provisioning
- Security Results-Based Automated ATO Documentation
- Evolved O&M Transition Policy
- Continuous Monitoring

+Previous

Attain Test Driven Management™

Successful DevSecOps programs are not just about the technology. Effective management of these programs is a critical component.

Attain understands that agile cannot be implemented effectively with typical project management approaches. To drive optimal outcomes, DevSecOps programs require a distinct approach to managing agile development. Development, test, and deployment have to happen in parallel. Managing all of these components—including multiple releases deploying into production in a given day—requires a rigorous process.

Accordingly, Attain developed a unique methodology for managing DevSecOps programs and their agile development projects: Attain Test Driven Management™. Built on a solid foundation of best practices, our robust approach incorporates automation to drive cost savings, reduce developer workload, and minimize rework. In addition, we leverage proven metrics along with trend analysis and reporting to illustrate the level of continuous improvement.

Automated End Point Testing

Functionality Testing
- Unit test cases
- Integration test cases

Performance Testing
- Load and stress tests
- APDEX score

Security Testing
- Dynamic Assessment End Point Vulnerability
- Static Code Analysis

Accessibility Testing
- Section 508
- W3C compliance

Contract Testing

Behavioral Driven Testing

Driving Impactful Results

Aligned with our Attain Test Driven Management approach, we employ impact mapping to ensure the project delivers on strategic goals, not just features. A visual, strategic and collaborative planning technique, impact mapping assists in aligning activities with business objectives to drive big-picture thinking and improved decision-making. Work effort is defined in terms of its impact not merely its completion. For one federal agency, Attain's development approach incorporating impact mapping resulted in a 62% reduction in user stories, freeing up valuable resources to focus on new high impact requirements.

Continuous Deployment

Reaching continuous deployment requires an evolution along the DevSecOps maturity model. Attain's Continuous Deployment model doesn't just label basic steps. It includes a detailed, all-encompassing multi-step process, including specific guidance outlining the transition from start to finish.

Attain's process for managing DevSecOps programs incorporates continuous CICD pipeline integration, continuous delivery, continuous deployment, and continuous monitoring. Continuous deployment is not possible without continuous monitoring, including stringent operations and maintenance procedures. Our approach is a cycle that ensures oversight throughout all the stages from development to operations.

Our end-to-end DevSecOps Maturity offering for achieving continuous deployment includes:

- DevSecOps policy design
- Maturity model implementation
- Deployment automation
- Continuous "X" design and implementation
- Ecosystem establishment
- Results-based deployment
- Deployment scorecard
- Automated security, accessibility and performance testing
- Governance/metrics-driven compliance
- Dashboard and analytics
- O&M transition policy

Security and User Experience Baked in

Security and the user experience are never an afterthought. We incorporate security throughout the process. And better security means better code quality and reliability.

Our User Experience/User Interface (UX/UI) Design approach employing Attain's unique Usability Labs process keeps users at the forefront to create products that they can easily navigate and that will keep them motivated to use. An efficient mechanism to limit frustration from users and reduce rework, this approach drives optimal organizational change management, while bolstering user buy-in, reducing wasted development time, and decreasing cost.

A Strategic Perspective

Attain brings a technology-agnostic, strategic perspective to DevSecOps programs. We understand the technology landscape (from architectures, automation tools, and security to cloud orchestration, containerization, microservices and more) and tailor each engagement to the unique needs of the client, including defining what specific metrics are important. Our consultative approach positions us as true champions for our clients.

With the right cultural mindset, people, processes, and technology, Attain's DevSecOps Maturity approach to software development and delivery can yield remarkable results:

- Developer enablement
- Shared program goals across teams
- Program quality visibility
- Early risk detection
- Complete transparency
- Streamlined communications
- Data-driven decision-making
- Operational efficiency
- Quality applications
- Tool- and technology-agnostic maturity model

Our Commitment to Quality

CMMI-DEV Maturity Level 5

ISO 9001:2008
Quality Management

ISO 20000-1:2011
Service Management

ISO 27001:2013
Security Management

CMMI DEV /5 ℠
Exp. 2021-03-29 / Appraisal #31409