Secure CI/CD

The holistic approach to a secure software development program

Coalfire's Secure CI/CD methodology helps you strategically evaluate, develop, and mature your secure software development program within your DevOps model.
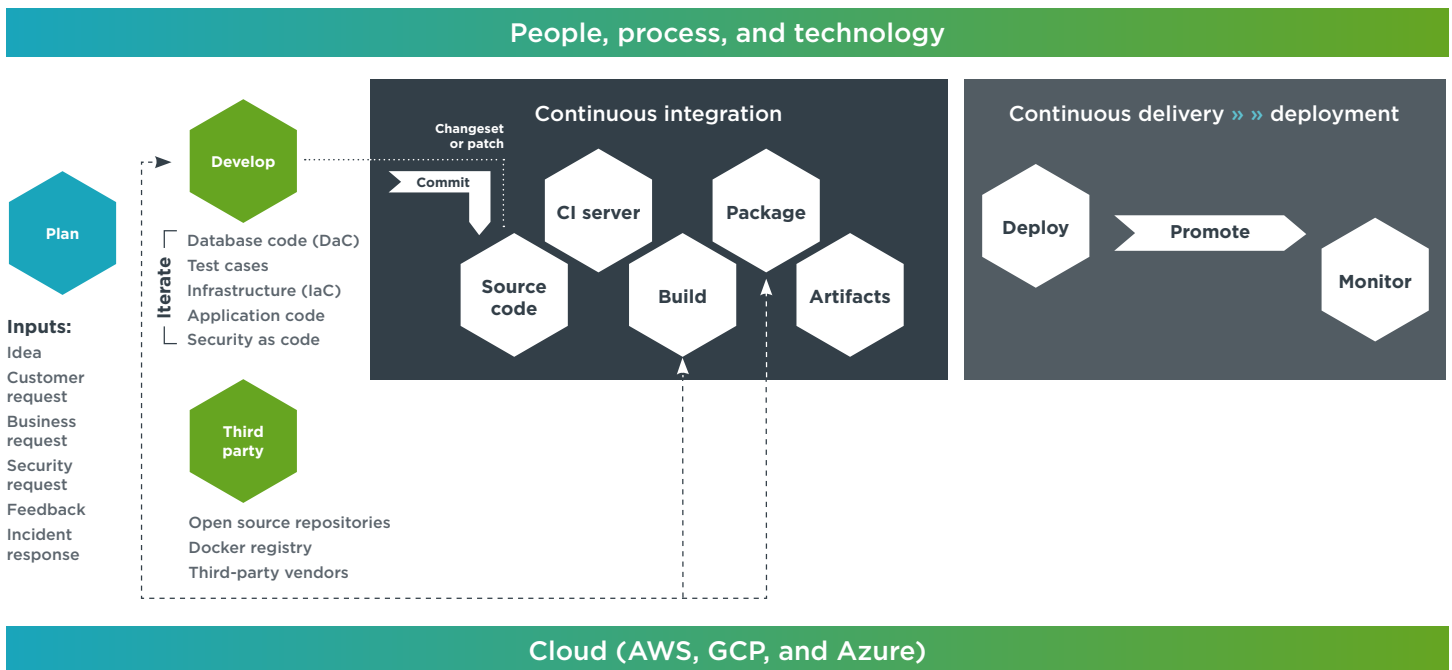
While typically an afterthought in the DevOps process, security is now a foundational component of application quality that must be considered early in the development lifecycle. Applications must be secure by design, rather than being secured and patched after release. This need to "shift left" security is a complicated endeavor that many organizations don't fully understand or know how to implement.

OUR SECURE CI/CD METHODOLOGY

Because integrating security into DevOps is often a complex and transformational shift, our approach evaluates the three key areas of people, process, and technology to develop and implement successful, holistic programs. We help you understand your current state, define your vision state, develop a business-aligned strategy, and ultimately, deliver an actionable roadmap to a mature and successful DevSecOps program.

We evaluate the current state of your DevOps or DevSecOps program, including strategy, culture, organizational structure, CI/CD process implementations, and technologies used. Then we identify risks and areas for improvement and make actionable recommendations to improve maturity. Optionally, we can also benchmark your program against frameworks such as Building Security In Maturity Model (BSIMM).

People, process, and technology

Inputs:
Idea
Customer request
Business request
Security request
Feedback
Incident response

Plan

Iterate
- Database code (DaC)
- Test cases
- Infrastructure (IaC)
- Application code
- Security as code

Develop

Third party
Open source repositories
Docker registry
Third-party vendors

Continuous integration
Changeset or patch
Commit
CI server
Package
Source code
Build
Artifacts

Continuous delivery » » deployment
Deploy
Promote
Monitor

Cloud (AWS, GCP, and Azure)

THE THREE PHASES OF OUR SECURE CI/CD METHODOLOGY

	Workshop and discovery	Analysis and reporting	Vision and roadmap
INPUTS	• Uncover current state and desired outcomes including: – Challenges and pain points (technical, practical, and cultural) – How DevOps or DevSecOps is currently implemented – Organizational structure in relation to existing processes – Strategy, business objectives, and future-state vision – Methodologies and technologies used in the process – Compliance and security requirements	• Evaluate secure software development process against our secure CI/CD framework and best practices • Determine gaps and opportunities for improvement between current state and target maturity future state • Analyze cultural, organizational, process, and technology pivots necessary to mature program	• Develop and prioritize recommendations • Categorize recommendations into projects • Develop strategic roadmap with milestones, timelines, and dependencies • Identify risks for project completion
OUTPUTS	• Secure software development core strategy, objectives, and vision • Observed maturity of secure software development program (people, process, and technology) • Strategic alignment to target maturity	• A report with findings and recommendations for maturing the program, including key considerations for people, process, and technology	• A prioritized roadmap for improving maturity, including organizational, cultural, process, and technology pivots • Identification of projects and next steps to reach strategic alignment, capabilities, and vision state • Defined standards and metrics to benchmark progress toward maturity targets

WHY CHOOSE COALFIRE FOR SECURE CI/CD?

• **Client-centric solutions:** Our approach to secure CI/CD identifies solutions that consider your people, process, and technology, rather than forcing a dogmatic approach.

• **Breadth and depth of secure CI/CD knowledge and experience:** Our approach, deliverables, and quality address maturity at the program level, with actionable recommendations in the core areas of people, process, and technology.

• **Deep understanding of risk and compliance:** As a lifecycle cybersecurity service provider, risk and compliance are baked into our DNA.

• **Business-oriented approach:** We focus on your business needs and objectives to craft a secure CI/CD approach that works for you.

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STRATEGICALLY MATURE YOUR SOFTWARE DEVELOPMENT PROGRAM.

Learn more about Coalfire's Secure CI/CD methodology.

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About Coalfire

Leading cloud infrastructure providers, SaaS providers, and enterprises turn to Coalfire for help solving their toughest cybersecurity problems. Through the combination of extensive cloud expertise, technology, and innovative and holistic approaches, Coalfire empowers clients to achieve their business objectives, use security and compliance to their advantage, and fuel their continued success. Coalfire has been a cybersecurity thought leader for 20 years and has offices throughout the United States and Europe. For more information, visit **Coalfire.com.**