AEGIS

CI/CD Pipeline Blueprint

Modern continuous integration and delivery architectures with security gates and deployment strategies

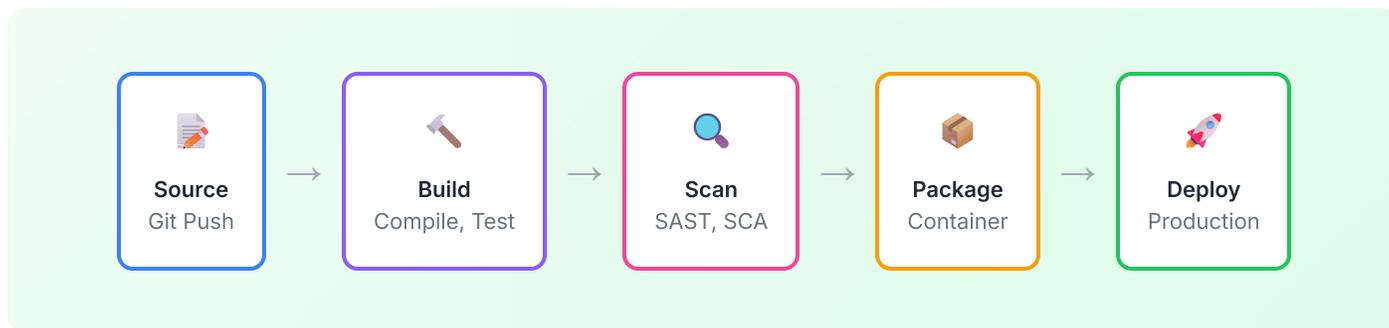**Continuous**   **Secure**   **Fast**   **Observable**

Pipeline Architecture Overview

Source		Build		Scan		Package		Deploy
Git Push	→	Compile, Test	→	SAST, SCA	→	Container	→	Production

CI/CD Tool Comparison

Tool	Type	Best For	Key Features
GitHub Actions	SaaS	GitHub repos	Native integration, marketplace
GitLab CI	SaaS/Self	Full DevOps	Built-in security, all-in-one
Jenkins	Self-hosted	Complex pipelines	Extensible, mature
Azure DevOps	SaaS	Microsoft shops	Boards + Repos + Pipelines
ArgoCD	Self-hosted	GitOps + K8s	Declarative, sync

Security Gates

🔍 SAST (Static Analysis)

Scan source code for vulnerabilities before build. Tools: SonarQube, Checkmarx, Semgrep

📦 SCA (Dependency Scan)

Identify vulnerable dependencies. Tools: Snyk, Dependabot, OWASP Dependency-Check

🐳 Container Scanning

Scan container images for CVEs. Tools: Trivy, Clair, Anchore, Aqua

🌐 DAST (Dynamic Analysis)

Test running application for vulnerabilities. Tools: OWASP ZAP, Burp Suite

Deployment Strategies

Strategy	Description	Risk	Best For
Rolling	Gradual instance replacement	Low	Standard deployments
Blue/Green	Full environment switch	Very Low	Critical apps
Canary	Small % traffic first	Very Low	Feature validation
Feature Flags	Code deployed, feature toggled	Low	A/B testing

AEGIS

Build Better Pipelines

Let us help you design and implement secure, fast CI/CD pipelines that accelerate your delivery.

Contact Us

📧 info@aegisit.ai

📞 (404) 490-0234

🌐 aegisit.ai