

### UNIFIED DEVELOPMENT AND DEPLOYMENT SOLUTION

**CoreInfra** is a comprehensive development and deployment framework that leverages automation, containerization, and multi-cloud capabilities to streamline project workflows. This infrastructure accelerates delivery for diverse projects, offering a scalable and adaptable solution for modern development and operational needs.

#### Key Features



**Unified CI/CD with GitHub Actions:** Automates code validation, testing, and deployment with seamless workflows.



**Containerization & Orchestration:** Uses Docker for image creation and Kubernetes for robust and scalable deployments.



**Flux for Continuous Deployment:** Automatically monitors Docker image updates and triggers redeployment in Kubernetes clusters



**Comprehensive Testing:** GitHub Actions handles unit, integration, and security checks for rigorous code quality validation.



**Post-Deployment Monitoring:** Ensures deployment success with automated health checks and rollback capabilities.

**Streamlined Processes:** Single CI/CD tool simplifies workflows and reduces overhead.



**Scalable Architecture:** Supports projects of all sizes with dynamic scaling across cloud platforms.



**Enhanced Security:** Integrated multi-cloud management with robust compliance monitoring.



**Increased Developer Productivity:** Automates repetitive tasks, enabling teams to focus on innovation.



**Adaptability Across Projects:** Modular design supports diverse project types and changing requirements.



#### Benefits



UEI: KWCXRVLB3VF7 Cage Code: 5U0E2



7761 Diamondback Dr, College Park, MD 20742



[www.infotrend.com](http://www.infotrend.com)



CTO: [jjackson@infotrend.com](mailto:jjackson@infotrend.com)