D O J O **F I V E**

Tools and services that improve the reliability, quality, and consistency of your embedded software builds.

Say goodbye to the headaches of release management and hello to a seamless software development experience. DojoFive EmbedOps goes beyond simple release management—offering a comprehensive orchestration of the embedded software lifecycle. We understand the challenges of managing builds, tests, and deployments. EmbedOps ensures consistent build and test environments from code, development, production, deployment, and finally sustaining engineering.

Because each project has a unique, containerized build environment, multiple developers can work with consistent tool sets, avoiding the hassle of "it works on one machine but not on another." With the ability to view the status and activity of multiple code repositories on one screen, visibility into the quality and status of your current build has never been easier. Think of EmbedOps as your one-stop shop for all things release management—standardized across your repositories and projects.

With EmbedOps, teams can focus on what matters most – building amazing products. Our solution simplifies the process and provides peace of mind, so you can confidently take your software development to the next level.

EmbedOps Features:
- Consistent build environments using containers
- Automated Continuous Integration testing pipelines with easy to use interface
- Integration with testing frameworks
- Hardware-In-the-Loop (HIL) testing
- Auditable software development process for regulated industries

The EmbedOps Product

EmbedOps consists of software, toolchains and services that focus on the foundation of any software development environment—build and test. EmbedOps specifically caters to embedded software teams—allowing them to tackle the challenges of creating and maintaining consistent build and test environments.

Software
EmbedOps provides web-based and command-line tools that make setting up and working with builds smooth and simple. EmbedOps tools also integrate directly with your automated CI pipelines allowing any developer to run any step in the production CI pipeline exactly as it would be run on the CI server.

Toolchains
EmbedOps provides managed containerized environments designed for all of your build dependencies including compilers, testing frameworks, and code quality tools. These containers enable you to construct or reproduce development environments quickly and reliably. EmbedOps currently supports GitHub, GitLab, and Bitbucket.

Services
In addition to setup and maintenance of your environment, our services include:

- **Build tool containers for your specific needs.**

- **Custom integrations to CI systems that we don't currently support. Those currently supportedinclude: Github Actions, GitLab, Bitbucket.**

- **Integration with testing frameworks. We currently support Ceedling, Catch2, and Google Test.**

- **Training for your team to fully capture the value of the tools EmbedOps brings to their workflow.**

Having centrally managed build and test environments offers a number of advantages, notably:

- Simpler developer onboarding— happens in minutes, not hours or days

- Reduces inconsistencies across environments—no more "Hey, it builds fine on my system"

- Enables build and test automation via modern CI systems

- Developers can easily run any step in the CI pipeline in a local environment— exactly as it would be run onthe production server

- Build configurations and dependencies are tracked and captured easily— allowing build or test environments to be reproduced quickly
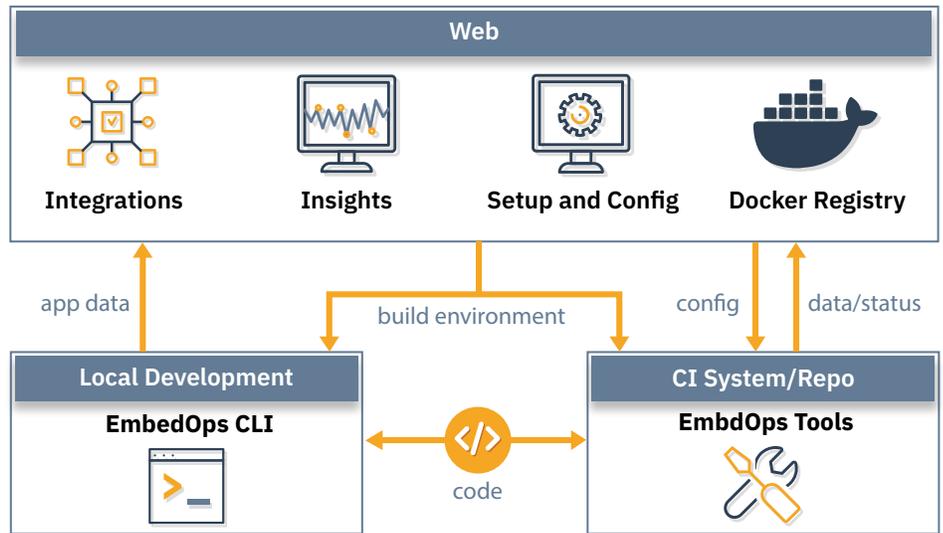
EmbedOps CLI

Built on Python, the CLI enables simple interaction with the build environment without having to learn Docker and CI systems nor needing to define the same process in multiple places.

EmbedOps Web

Our reporting interface captures information about software builds that may be relevant to embedded developers such as memory planning and usage over time.

EmbedOps Registry

We offer a number of pre-built containers through our container registry and continue to add new containers to expand our footprint of supported compilation, code quality, and testing environments.

Web

Integrations   Insights   Setup and Config   Docker Registry

app data   build environment   config   data/status

Local Development
EmbedOps CLI

CI System/Repo
EmbdOps Tools

code

EmbedOps Design Principles

Don't reinvent the wheel

EmbedOps is not out to become another CI platform. EmbedOps provides a complementary eco-system that integrates with best-of-breed tools already available in the market and makes them available to your team without the learning curve. Where needed, we're developing custom tools, integrations, and additional services to fill in the gaps for the unique needs of embedded systems development teams.

Keep it simple

The EmbedOps CLI is intended to simplify the interaction with containers and enable easy access to CI pipelines on the production server. This means development team members can build their code easily and exactly as it will be in production. Your team can focus on their code—not having to learn the idiosyncratic nuances of the underlying tools.

Avoid vendor lock-in

We know that the development tool landscape is moving and changing faster than many of us can keep pace with. For that reason, we're avoiding choices that will result in "vendor lock-in" — that feeling of being locked into a tool or approach in a way that makes it difficult to use a different approcah when necessary or appropriate.

About Dojo Five

Dojo Five offers products and services aimed at revolutionizing the embedded firmware development industry. Dojo Five seeks to modernize the firmware development and deployment experiences through innovations in the quality, efficiency, and security of modern embedded firmware. With over 335+ years of combined expertise, Dojo Fives helps companies optimize their embedded software development systems by bringing together tools, techniques, technologies, and culture to deliver modern firmware for embedded systems.

The EmbedOps Vision
Build and test are at the core of every modern DevOps Pipeline.
Our vision is one in which we enable fully automated workflows across the entire embedded software development life cycle and supply chain.

Commit   Analyze   Test   Simulate   HIL   Build   Deploy   OTA   Factory   Monitor

Document and Secure

D5

Visit **DojoFive.com** to learn more about what Dojo Five can do for your embedded project.
Or contact us for a **complimentary demo** of EmbedOps and our embedded services offerings at **hello@dojofive.com**