

What Is CI/CD

- Continuous Integration (CI)
 - Every change to code is tested and built
- Continuous Deployment (CD)
 - Every (production) change is automatically deployed to servers

Continuous Integration

- Ensures separate code branches can be correctly integrated into the main code
- Includes ideas such as:
 - Linting Check code for content/syntax errors
 - Formatting making code look nice/consistent
 - Build Ensure code can compile successfully
 - Test Run various (unit, regression, integration, etc.) tests

Continuous Deployment

- Accepts code which passes CI
- Pushes code to server
- Ensures configuration and environment updates.
- Transitions between previous and current version
- Continuous Delivery
 - Create build artifacts
 - Present for download/use

Follow Along (basic site)

- Create Account/Sign in to GitHub
- Go to https://github.com/jhollowe/ci-workshop
- Fork Repository
- Enable GitHub Pages
 - Settings > Pages > branch=main > folder=/ (root) > Save
- View site:
 - https://<username>.github.io/ci-workshop

Follow Along 2 (blog)

- Change to "blog" branch
- Add .github/workflows/gh-pages.yaml file
 - Copy contents from

 https://raw.githubusercontent.com/jhollowe-forks/ci-work
 shop/blog/.github/workflows/gh-pages.yaml
 - Commit and push changes
- View build process
- Change Pages to serve from gh-pages branch

Real World Examples

Home Assistant Core

https://github.com/home-assistant/core/actions/workflows/ci.yaml

