CircleCI Continuous Integration Pipeline Document

Overview

This document outlines a sample configuration for a CircleCI continuous integration pipeline. Use this structure as a starting point for automating your project's build, test, and deployment workflows.

Sample

`.circleci/config.yml`

```yaml
version: 2.1
jobs:
  build:
    docker:
      - image: cimg/node:18.16
    steps:
      - checkout
      - run: npm install
      - run: npm run build

  test:
    docker:
      - image: cimg/node:18.16
    steps:
      - checkout
      - run: npm install
      - run: npm test
workflows:
  version: 2
  ci_pipeline:
    jobs:
      - build
      - test:
          requires:
            - build
```

Pipeline Stages

1. **Checkout:** Clones your repository to the working container.
2. **Install:** Installs project dependencies.
3. **Build:** Compiles project assets.
4. **Test:** Runs unit tests to ensure code quality.

Customization

- Update the Docker image to match your project's runtime requirements.
- Add additional jobs for linting, integration tests, or deployment as needed.
- Configure environment variables and cache dependencies to speed up builds.

References

- Configuration Reference