

# GitLab CI/CD Pipeline Documentation Template

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## 1. Overview

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Brief summary of the CI/CD pipeline purpose, main workflows, and repository information.

## 2. Pipeline Structure

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Description of the `.gitlab-ci.yml` structure and main configuration.

```
stages:
  - build
  - test
  - deploy
```

## 3. Stages

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Stage	Description
build	Compiles the source code.
test	Runs tests and quality checks.
deploy	Deploys the application.

## 4. Jobs

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Describe each job, its scripts, and what it achieves.

```

build_job:
  stage: build
  script:
    - echo "Building..."
test_job:
  stage: test
  script:
    - echo "Testing..."
deploy_job:
  stage: deploy
  script:
    - echo "Deploying..."

```

## 5. Variables

Variable	Purpose/Description	Scope
ENV	Target deployment environment	Global
SECRET_KEY	Secret credentials for deployment	Protected/CI

## 6. Caching and Artifacts

Detail cache and artifact usage to improve pipeline performance and manage job outputs.

```

cache:
  paths:
    - node_modules/
artifacts:
  paths:
    - build/

```

## 7. Runners

List registered GitLab Runners and their tags or other relevant configuration for the project.

## 8. Triggers

Document pipeline triggers (e.g., push, merge, schedules, manual actions).

- Pipeline starts on push to default branch.
- Manual deployment job trigger.
- Scheduled pipeline every night at 2:00 AM.

## 9. References

- [.gitlab-ci.yml Reference](#)

