

GitLab CI/CD Pipeline Documentation Template

Table of Contents

- 1. Overview
- 2. Pipeline Structure
- 3. Stages
- 4. Jobs
- 5. Variables
- 6. Caching and Artifacts
- 7. Runners
- 8. Triggers
- 9. References

1. Overview

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

2. Pipeline Structure

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

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

3. Stages

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

4. Jobs

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](#)

