

CREATING A MULTI-STAGE GITLAB CI/CD PIPELINE TO PRINT 'HELLO, WORLD!'

1. Set Up Your GitLab Repository

1. Create a new project in GitLab or use an existing one.
2. Navigate to your repository.
3. Ensure you have proper permissions to create and edit pipeline configurations.

2. Create a .gitlab-ci.yml File

1. In the root of your repository, create a file named .gitlab-ci.yml.
2. Define the stages and jobs in the file as shown below:

stages:

- prepare
- build
- test
- deploy
- cleanup

prepare:

stage: prepare

script:

- echo "Starting the pipeline"
- echo "Prepare stage completed!"

build:

stage: build

script:

- echo "Building the application..."
- echo "Hello, World! from the build stage"

test:

stage: test

script:

- echo "Running tests..."
- echo "Hello, World! from the test stage"

deploy:

stage: deploy

script:

- echo "Deploying the application..."
- echo "Hello, World! from the deploy stage"

cleanup:

stage: cleanup

script:

- echo "Cleaning up resources..."
- echo "Pipeline execution completed successfully!"

3. Push Changes to the Repository

1. Save the .gitlab-ci.yml file.
2. Add, commit, and push the file to your repository:

4. View the Pipeline in GitLab

1. Go to your GitLab project.
2. Click on **CI/CD > Pipelines** in the left-hand menu.
3. You should see your pipeline running automatically. If not, trigger it manually by clicking **Run Pipeline**.