**GitLab CI/CD Pipeline & Runner Setup**

**Repo:** [**https://gitlab.com/shackverse03/Boardgame.git**](https://gitlab.com/shackverse03/Boardgame.git)

**1) .gitlab-ci.yml (drop in your repo root)**

# Use Ubuntu for all jobs by default

default:

image: ubuntu:22.04

stages:

- install

- compile

- test

- build

- deploy

# --- Install toolchain on the runner host (needs sudo on the runner) ---

install-job:

stage: install

script:

- set -euo pipefail

- export DEBIAN\_FRONTEND=noninteractive

- sudo -n apt-get update

- sudo -n apt-get install -y --no-install-recommends openjdk-17-jre-headless maven

tags: [self-hosted]

# --- Compile ---

compile-job:

stage: compile

script:

- mvn compile

tags: [self-hosted]

# --- Tests (run in parallel with lint) ---

unit-test-job:

stage: test

script:

- mvn test

tags: [self-hosted]

lint-test-job:

stage: test

script:

- echo "Linting code... This will take about 10 seconds."

- sleep 10

- echo "No lint issues found."

tags: [self-hosted]

# --- Build & keep artifacts only if tests pass ---

build-job:

stage: build

script:

- mvn package

artifacts:

name: "build-${CI\_COMMIT\_SHORT\_SHA}"

paths:

- target/\*.jar

expire\_in: 14 days

when: on\_success

needs:

- job: unit-test-job

tags: [self-hosted]

# --- Deploy (dummy) ---

deploy-job:

stage: deploy

environment: production

script:

- echo "Deploying application..."

- echo "Application successfully deployed."

tags: [self-hosted]

Notes:

* Removed the duplicate lint-test-job and fixed the artifact name (no space after build-).
* Added apt-get update and --no-install-recommends for cleaner installs.

**2) Allow passwordless sudo for the runner**

Run on the runner host:

Switch to root user sudo su

sudo visudo -f /etc/sudoers.d/gitlab-runner

Paste **exactly**:

Defaults:gitlab-runner !requiretty

gitlab-runner ALL=(ALL) NOPASSWD:ALL

Validate:

sudo visudo -c

sudo -u gitlab-runner -H bash -lc 'sudo -n true && echo OK'

**3) Backup the gitlab-runner user’s .bash\_logout**

Some distros clear the console or run commands at logout that break shell executor. Back it up (don’t delete):

sudo mv /home/gitlab-runner/.bash\_logout /home/gitlab-runner/.bash\_logout.bkp

sudo chown gitlab-runner:gitlab-runner /home/gitlab-runner/.bash\_logout.bkp || true