# Workflow Documentation

This document provides a visual overview of the CI/CD workflow execution and the final deployment status.

## 1. GitHub Actions Workflow Status

This section shows the status of the two-stage workflow in the GitHub Actions tab.

### Stage 1: Analyze, Build, and Push

* **Description:** This stage should show a successful run for the code analysis, Docker build, and push to Docker Hub.
* A screenshot of a computer

  AI-generated content may be incorrect.

### Stage 2: Deploy to EC2

* **Description:** This stage should show a successful run for the job that triggers the deployment on the EC2 instance.

A screenshot of a computer

AI-generated content may be incorrect.

## 2. SonarQube Analysis Report

This section shows the project’s dashboard in SonarQube after the analysis is complete.

* **Description:** The dashboard should show a “Passed” quality gate, along with metrics for bugs, vulnerabilities, and code smells.
* A screenshot of a computer

  AI-generated content may be incorrect.

## 3. Application Running on EC2 Host

This section shows the result of the deployment on the EC2 instance.

### Docker Container Status

* **Description:** This shows the output of docker ps on the EC2 instance, confirming that the new container is running.
* A screenshot of a computer

  AI-generated content may be incorrect.