

# Blog DevOps Project

## Master Documentation

Commit Hash:

**fffc99e4**

Commit Date: 2025-12-10 20:01:46 -0500

Author: Andre Santiago-Neyra

Message: Merge branch 'main' of https://github.com/Andre-asn/blog-devops

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# Contents

|          |  |          |
|----------|--|----------|
| <b>1</b> | <b>Introduction</b>                        | <b>2</b> |
| 1.1      | Project Overview . . . . .                 | 2        |
| 1.2      | Documentation Structure . . . . .          | 2        |
| <b>2</b> | <b>Commit History</b>                      | <b>2</b> |
| 2.1      | Latest Commit . . . . .                    | 2        |
| 2.2      | Changes in This Commit . . . . .           | 2        |
| <b>3</b> | <b>Project Documentation</b>               | <b>3</b> |
| 3.1      | Project README . . . . .                   | 3        |
| 3.2      | GitHub Actions UML Documentation . . . . . | 4        |
| 3.2.1    | Class Diagram . . . . .                    | 5        |
| 3.2.2    | Package Diagram . . . . .                  | 5        |
| 3.3      | Jenkins UML Documentation . . . . .        | 5        |
| 3.3.1    | Class Diagram . . . . .                    | 6        |
| 3.3.2    | Package Diagram . . . . .                  | 6        |
| <b>A</b> | <b>Appendix A: Configuration Files</b>     | <b>6</b> |
| <b>B</b> | <b>Appendix B: Pipeline Logs</b>           | <b>6</b> |

## 1 Introduction

This document contains the complete documentation for the Blog DevOps Project. It is automatically generated and updated on each commit to the repository.

### 1.1 Project Overview

The Blog DevOps Project is a full-stack blog application demonstrating complete DevOps practices including CI/CD pipelines, automated testing, deployment, monitoring, and infrastructure as Code.

### 1.2 Documentation Structure

This master documentation includes:

- Project architecture and design
- CI/CD pipeline documentation
- Infrastructure setup guides
- API documentation
- Deployment procedures
- Monitoring and observability
- Change log

## 2 Commit History

### 2.1 Latest Commit

- **Hash:** ffc99e4
- **Date:** 2025-12-10 20:01:46 -0500
- **Author:** Andre Santiago-Neyra
- **Message:** Merge branch 'main' of https://github.com/Andre-asn/blog-devops

### 2.2 Changes in This Commit

- M .github/workflows/ci-cd.yml
- M Jenkinsfile
- M README.md
- D docs/DEMO\_PRESENTATION.md
- D docs/LOAD\_BALANCER\_SETUP.md
- D docs/QUICK\_REFERENCE.md
- D docs/SWOT\_DETAILED.md
- D docs/TALKING\_POINTS.md

- R100 documentations/actions-doc/README.md docs/actions-doc/README.md
- R100 documentations/actions-doc/classes\_blog\_app.dot docs/actions-doc/classes\_blog\_app.dot
- R100 documentations/actions-doc/classes\_blog\_app.png docs/actions-doc/classes\_blog\_app.png
- R100 documentations/actions-doc/classes\_blog\_app.svg docs/actions-doc/classes\_blog\_app.svg
- R100 documentations/actions-doc/packages\_blog\_app.dot docs/actions-doc/packages\_blog\_app.dot
- R100 documentations/actions-doc/packages\_blog\_app.png docs/actions-doc/packages\_blog\_app.png
- R100 documentations/actions-doc/packages\_blog\_app.svg docs/actions-doc/packages\_blog\_app.svg
- R100 documentations/jenkins-doc/README.md docs/jenkins-doc/README.md
- R100 documentations/jenkins-doc/classes\_blog\_app.dot docs/jenkins-doc/classes\_blog\_app.dot
- R100 documentations/jenkins-doc/classes\_blog\_app.png docs/jenkins-doc/classes\_blog\_app.png
- R100 documentations/jenkins-doc/classes\_blog\_app.svg docs/jenkins-doc/classes\_blog\_app.svg
- R100 documentations/jenkins-doc/packages\_blog\_app.dot docs/jenkins-doc/packages\_blog\_app.dot
- R100 documentations/jenkins-doc/packages\_blog\_app.png docs/jenkins-doc/packages\_blog\_app.png
- R100 documentations/jenkins-doc/packages\_blog\_app.svg docs/jenkins-doc/packages\_blog\_app.svg
- M documentation/master\_documentation.tex
- M scripts/update\_latex\_documentation.sh

### 3 Project Documentation

This section contains automatically generated documentation including UML diagrams, architecture documentation, and pipeline-generated content.

#### 3.1 Project README

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### 3.2 GitHub Actions UML Documentation



### 3.2.1 Class Diagram

The class diagram is available as: `classes_blog_app.png`

### 3.2.2 Package Diagram

The package diagram is available as: `packages_blog_app.png`

## 3.3 Jenkins UML Documentation



### 3.3.1 Class Diagram

The class diagram is available as: `classes_blog_app.png`

### 3.3.2 Package Diagram

The package diagram is available as: `packages_blog_app.png`

## A Appendix A: Configuration Files

## B Appendix B: Pipeline Logs