

# Blog DevOps Project

## Master Documentation

Commit Hash:

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Author: Andre Santiago-Neyra

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## 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:** a3b6fc3
- **Date:** 2025-12-07 20:04:08 -0500
- **Author:** Andre Santiago-Neyra
- **Message:** ci: Enhance LaTeX documentation update process with improved commit hash verification

### 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

### 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