

Blog DevOps Project

Master Documentation

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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:** 7d9a664
- **Date:** 2025-12-07 18:47:04 -0500
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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