

DevSecOps Security Report

Project: devsecops-microservice

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1. Executive Summary

This report summarizes the implementation of security measures in the DevSecOps pipeline for the **devsecops-microservice** project.

2. Security Tools Used

- **Static Application Security Testing (SAST):** SonarQube
Used to detect code quality and security issues.
 - **Dependency Scanning:** OWASP Dependency-Check
Scanned project dependencies to identify known vulnerabilities.
 - **Container Scanning:** [Trivy](#)
Scanned Docker images for vulnerabilities before deployment.
 - **Infrastructure as Code (IaC) Scanning:** [Terraform Validator](#) and Checkov
Validated Terraform scripts to ensure security best practices in cloud infrastructure provisioning.
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3. Pipeline Overview

- **Source Control:** GitHub with branch protection rules enforcing pull requests and code reviews.
- **CI/CD:** GitHub Actions pipeline automating build, test, security scans, and deployments.
- **Container Registry:** Docker Hub with integrated vulnerability scanning on images.
- **Deployment:** Kubernetes cluster configured with RBAC .
- **Artifact Management:** Git Large File Storage (Git LFS) used for large binaries to keep repo size manageable.