



Assma Fadhli

SWIPE →

# 5 DEVOPS PROJECT IDEAS.

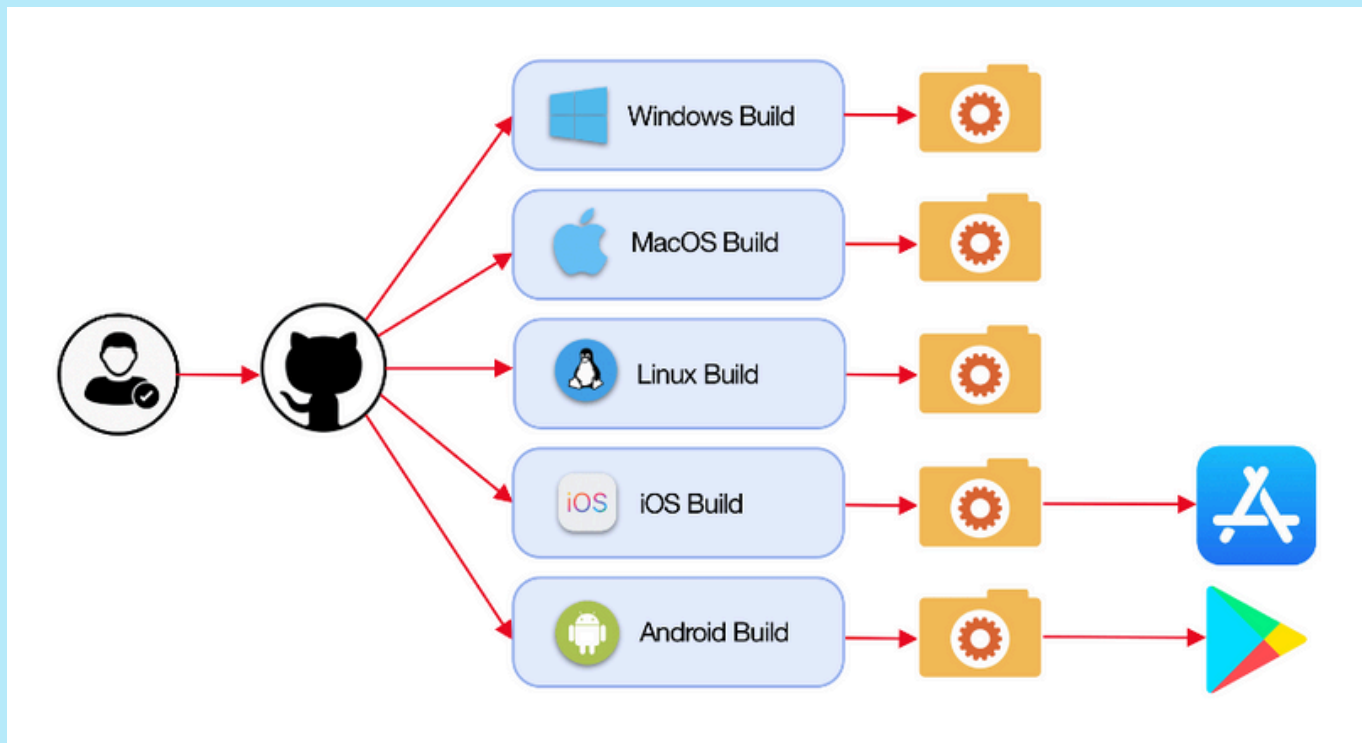


Feel free to share this guide with anyone who might find it useful!  
Credit for the project steps and scripts goes to Harshhaa:  
<https://github.com/NotHarshhaa>





# 1. END-TO-END CI/CD PIPELINE FOR ANDROID APPS WITH GITHUB ACTIONS



[Click here to](#) explore the complete source code

This project is about how to build a fully automated **CI/CD pipeline** for Android applications using **GitHub Actions**. The pipeline ensures seamless **building, testing, and deployment**, allowing developers to focus on writing code while automation handles the rest.

## ✓ Key Features

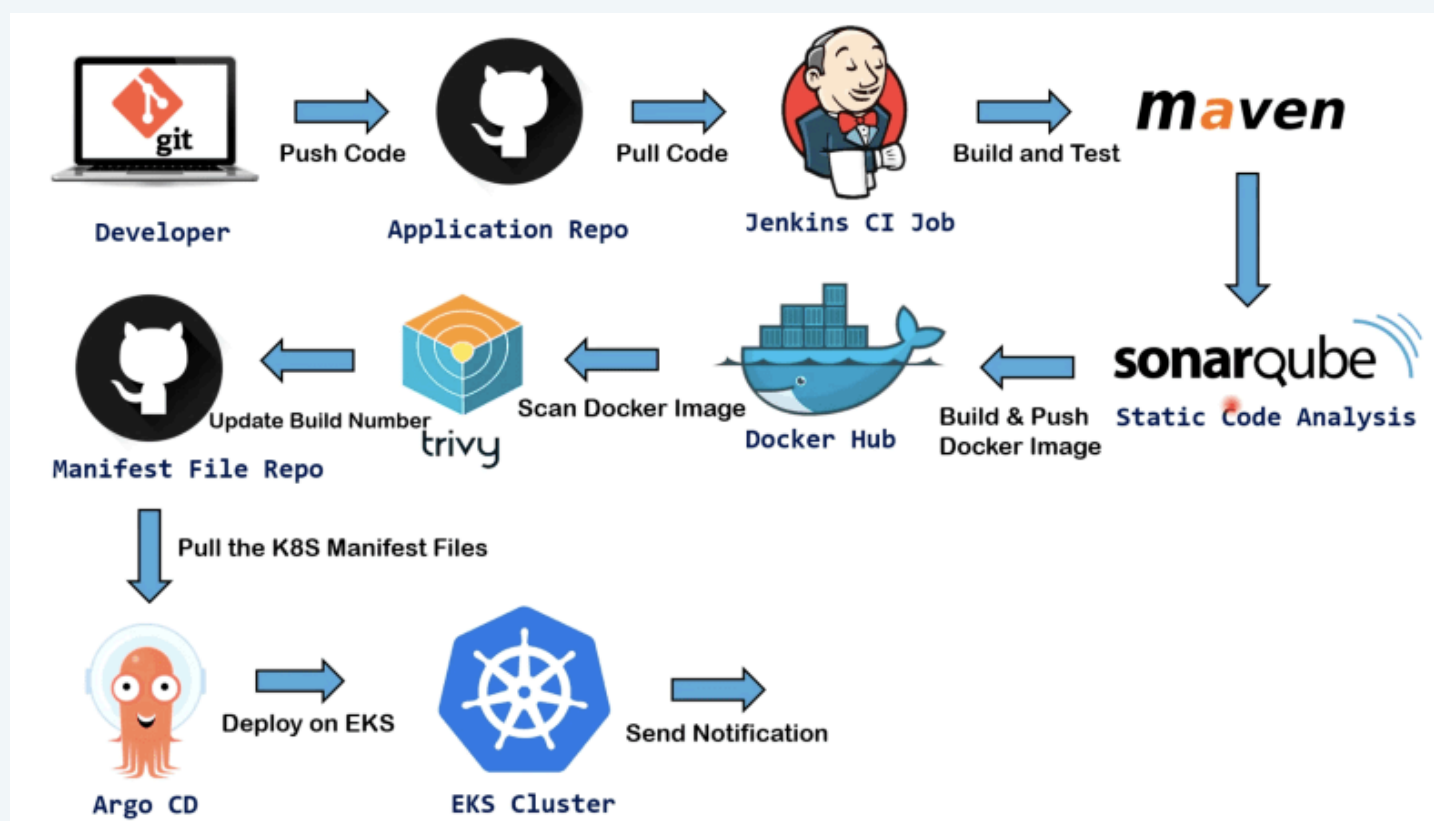
- **Automated Builds** – Compile Android projects with Gradle
- **Continuous Integration** – Run unit and instrumentation tests
- **Artifact Management** – Store APK/AAB files securely
- **Code Quality Checks** – Integrate with tools like Lint & SonarQube
- **Secure Deployments** – Release to Google Play Store or Firebase

Feel free to share this guide with anyone who might find it useful!





## 2. REAL TIME DEVOPS PROJECT | DEPLOY TO KUBERNETES USING JENKINS | END TO END DEVOPS PROJECT | CI/CD



[Click here to explore the complete source code](#)

This project shows how to set up a fully automated CI/CD pipeline from code commit to Kubernetes deployment using Jenkins, Docker, SonarQube, and ArgoCD on AWS EKS.

### ✓ Key Features:

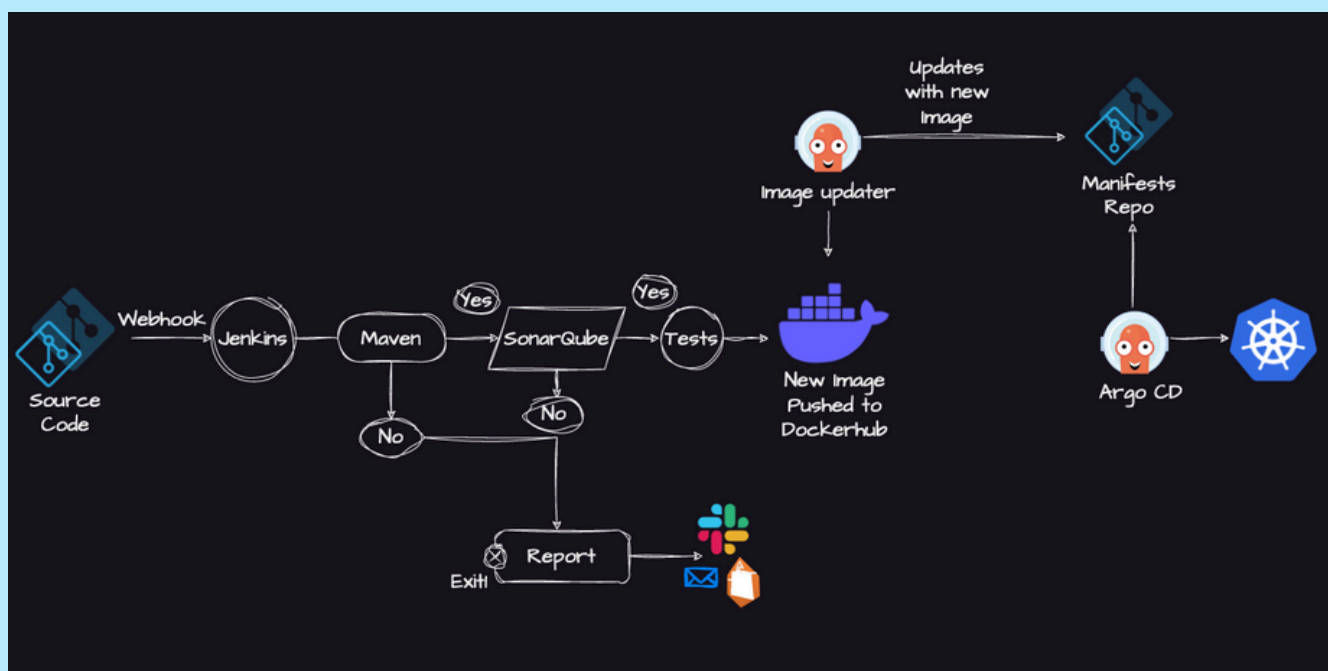
- Jenkins master-agent builds and tests code
- Docker image creation and registry pushes
- SonarQube code-quality scans
- Automated GitOps deployments via ArgoCD
- Kubernetes cluster provisioning with eksctl

Feel free to share this guide with anyone who might find it useful!





# 3. JENKINS PIPELINE FOR JAVA-BASED APPLICATION USING MAVEN, SONARQUBE, ARGO CD, HELM, AND KUBERNETES



[Click here to explore the complete source code](#)

This project shows how to build a Jenkins-driven CI/CD pipeline for a Java app—using Maven, SonarQube, Helm charts, Argo CD, and Kubernetes—to automate build, quality checks, and deployments.

## ✓ Key Features:

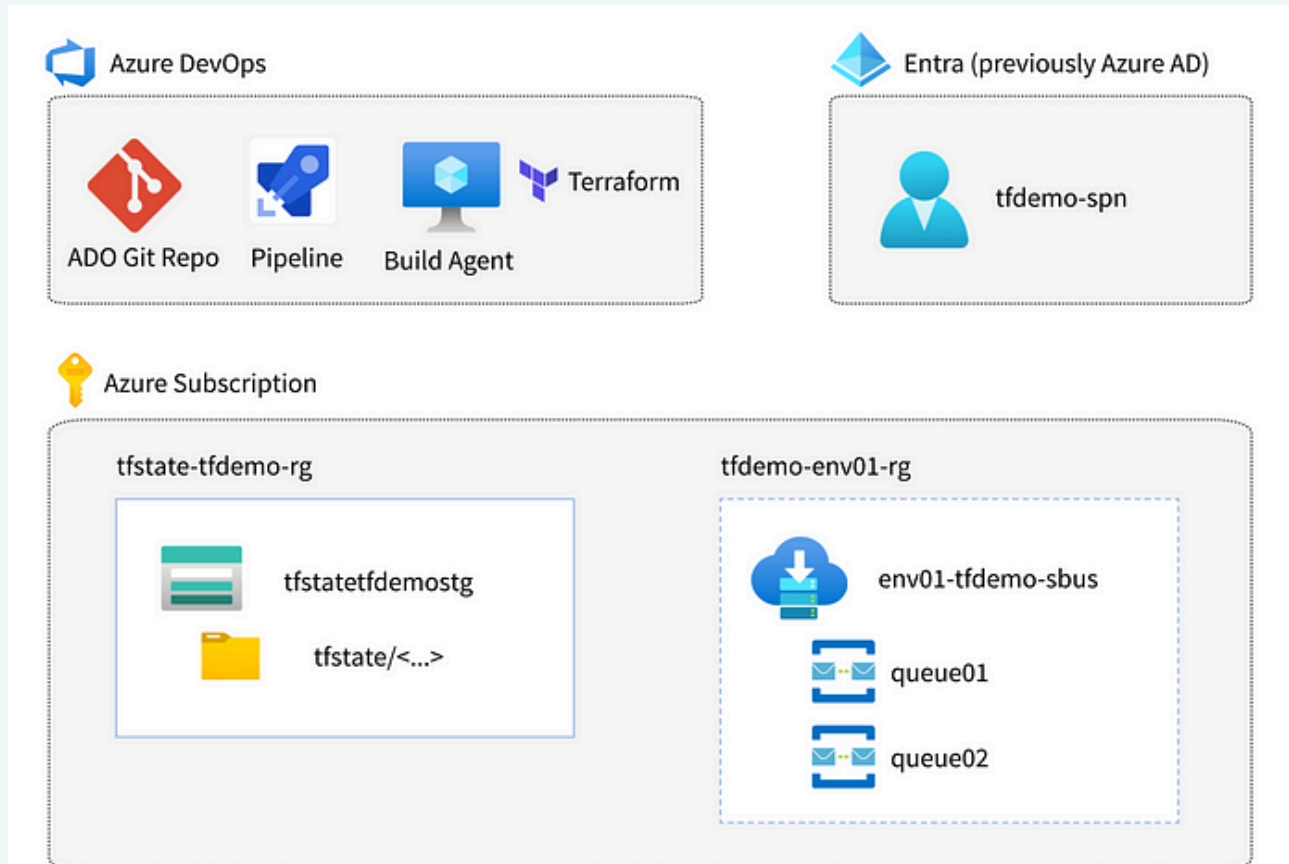
- Maven-powered builds & JUnit/Mockito tests
- SonarQube quality gates before packaging
- Helm-based Docker deployments to Kubernetes
- GitOps-style promotion with Argo CD

Feel free to share this guide with anyone who might find it useful!





## 4. AZURE DEVOPS PIPELINE + TERRAFORM DEPLOYMENT TUTORIAL



[Click here to explore the complete source code](#)

This project shows how to deploy Terraform configurations to Azure using Azure DevOps (ADO)—from Service Principal setup and remote state in Azure Blob Storage to multi-stage pipelines with manual approvals and scalable, parameterized deployments.

### ✓ Key Features:

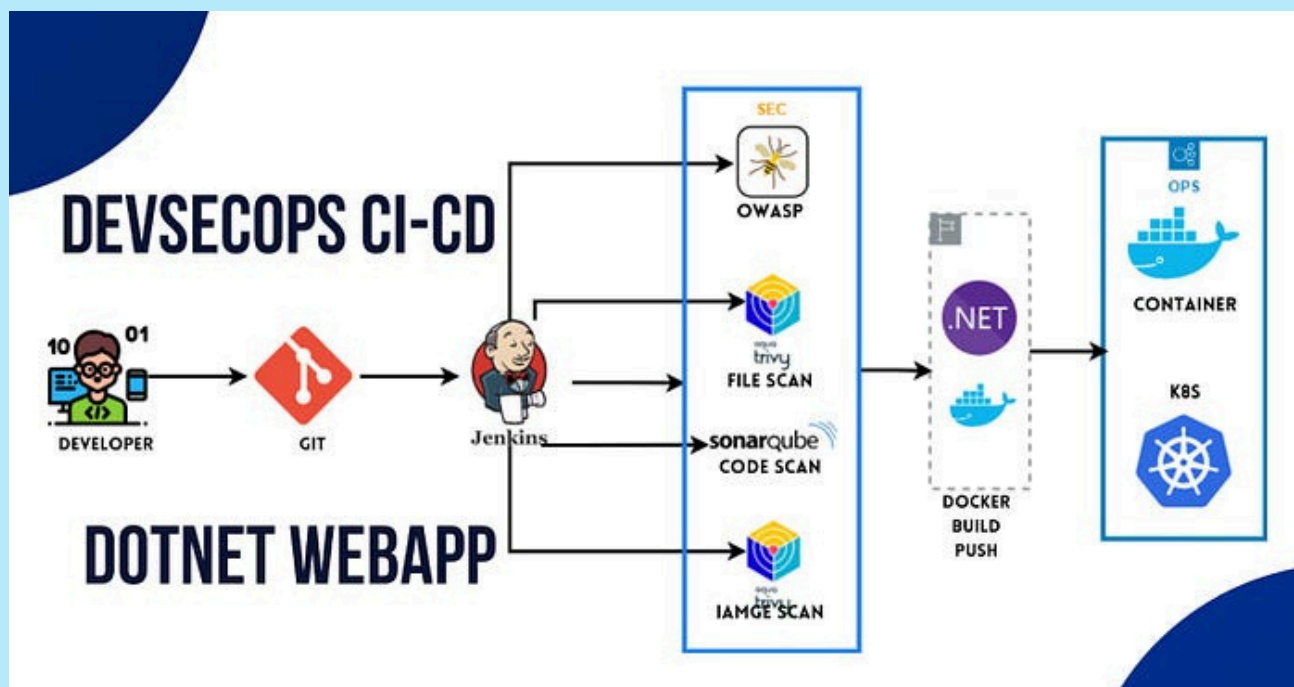
- Remote Terraform state in Azure Blob Storage
- Service Principal creation with Contributor & Storage RBAC
- Two-stage ADO pipeline (Plan + Apply) with manual gate
- Parameterized YAML templates for scalable DEV/UAT/PROD

Feel free to share this guide with anyone who might find it useful!





## 5. REAL-TIME DEVSECOPS PIPELINE FOR A .NET WEB APP



[Click here to explore the complete source code](#)

This project demonstrates a Jenkins-driven CI/CD pipeline for a real-world .NET application—automating security scans, Docker container builds, and Kubernetes deployments.

### ✓ Key Features:

- Static & Dependency Analysis – SonarQube, Trivy filesystem/image scans, and OWASP Dependency-Check
- Automated Builds – Jenkins Declarative Pipeline compiles with JDK17 and runs tests
- Containerization – make-powered Docker image build & push to Docker Hub
- Runtime Deployments – Run in a Docker container (port 5000) or apply to a Kubernetes cluster
- Kubernetes Integration – Configure master/worker nodes, manage creds with Jenkins's Kubernetes plugin

Feel free to share this guide with anyone who might find it useful!





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# YOU'VE GOT THIS...

You can start right now, even from zero. Every big journey begins with a single step, and I'm cheering you on every beat of the way!

Feel free to share this guide with anyone who might find it useful!

