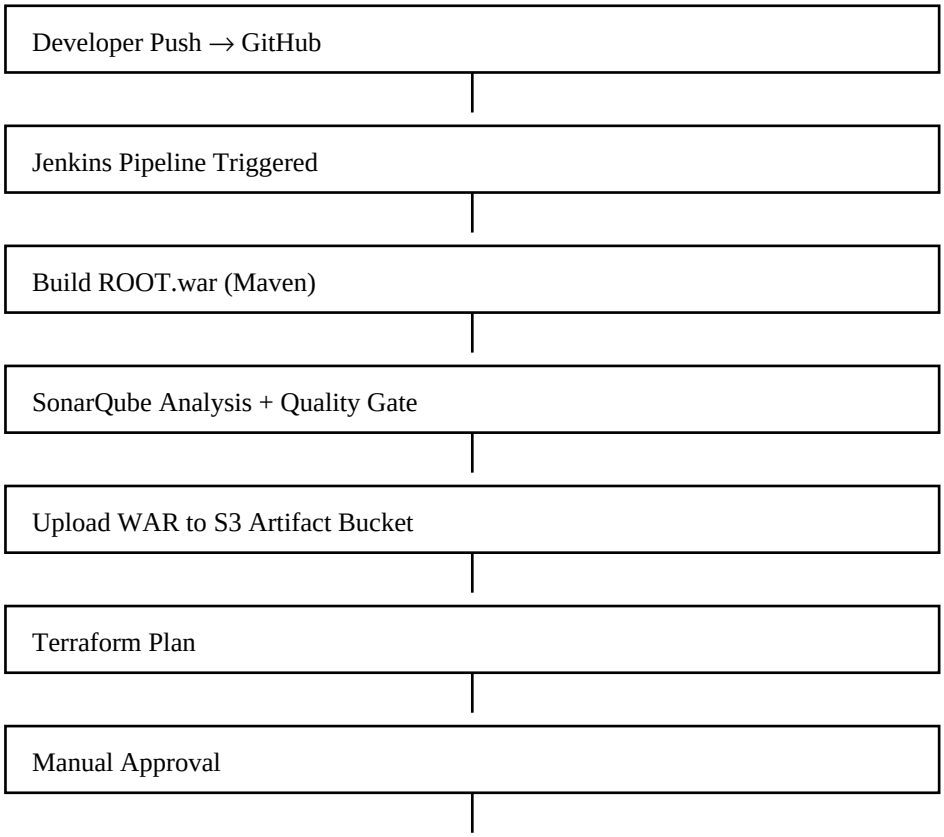
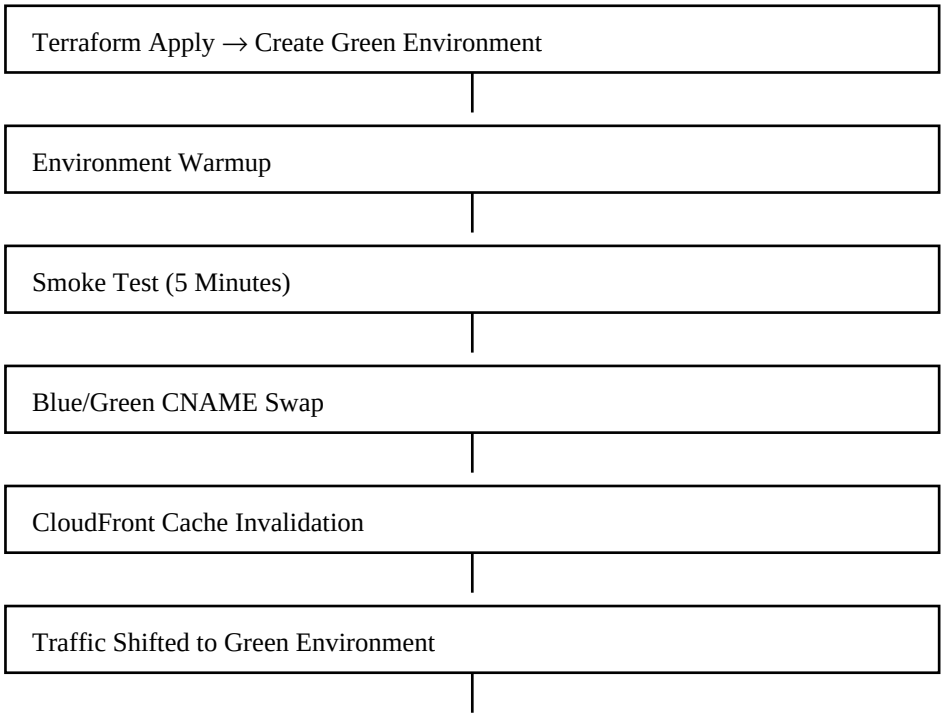
Blue/Green Deployment Architecture Diagram


Developer Push → GitHub
Jenkins Pipeline Triggered
Build ROOT.war (Maven)
SonarQube Analysis + Quality Gate
Upload WAR to S3 Artifact Bucket
Terraform Plan
Manual Approval


Terraform Apply → Create Green Environment
Environment Warmup
Smoke Test (5 Minutes)
Blue/Green CNAME Swap
CloudFront Cache Invalidation
Traffic Shifted to Green Environment