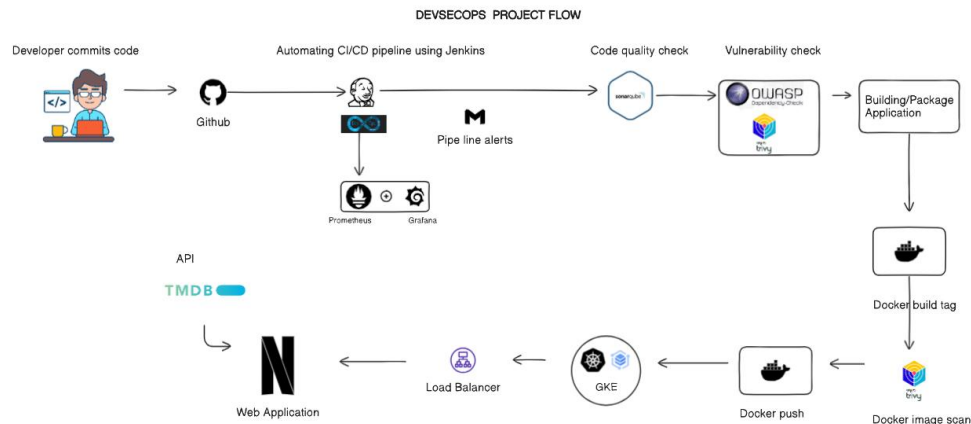# POC #1 Deploy Netflix Clone on Cloud using Jenkins - DevSecOps Project!

Phase 1: Initial Setup and Deployment

Step 1: Launch EC2 (Ubuntu 22.04)

Step 2: Clone the Code

Step 3: Install Docker and Run the App Using a Container

Step 4: Get the API Key from tmdb

Phase 2: Security

Step 1:Install SonarQube and Trivy.

Step 2:Integrate SonarQube and Configure

Phase 3: CI/CD Setup

Step 1:Install Jenkins for Automation

Step 2:Install Necessary Plugins in Jenkins:

Step 3:Configure Java and Nodejs in Global Tool Configuration

Step 4:Configure CI/CD Pipeline in Jenkins:

Step 5:Install Dependency-Check and Docker Tools in Jenkins

Step 6:Install Dependency-Check Plugin

Step 7:Configure Dependency-Check Tool

Step 8:Configure Dependency-Check Tool

Step 9:Add DockerHub Credentials:

Phase 4: Monitoring

Step 1:Install Prometheus and Grafana

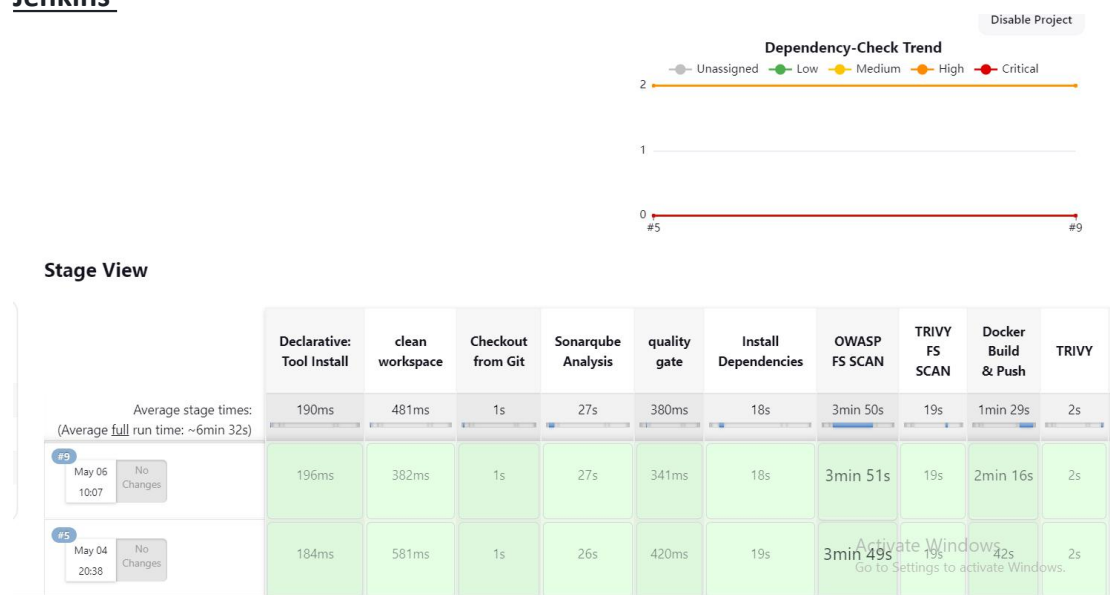Step 2:Installing Node Exporter

Step 3:Configure Prometheus Plugin Integration

Phase 5: Kubernetes

Step 1: Deploy the image from docker hub using deployment pod along with load balancer service.

OUTPUT:
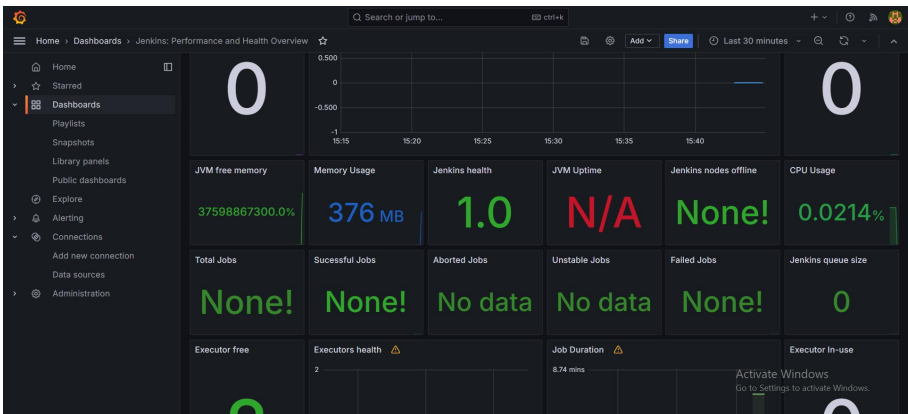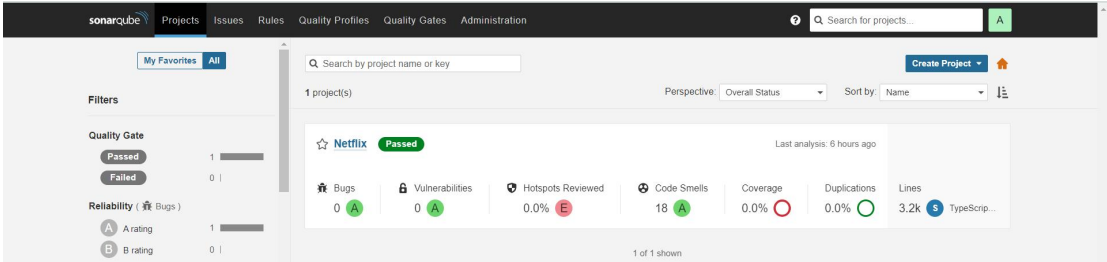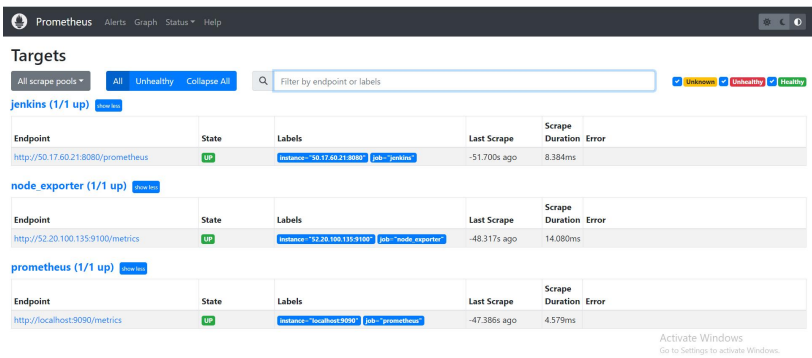

Jenkins

	Declarative: Tool Install	clean workspace	Checkout from Git	Sonarqube Analysis	quality gate	Install Dependencies	OWASP FS SCAN	TRIVY FS SCAN	Docker Build & Push	TRIVY
Average stage times: (Average full run time: ~6min 32s)	190ms	481ms	1s	27s	380ms	18s	3min 50s	19s	1min 29s	2s
#9 May 06 10:07 — No Changes	196ms	382ms	1s	27s	341ms	18s	3min 51s	19s	2min 16s	2s
#5 May 04 20:38 — No Changes	184ms	581ms	1s	26s	420ms	19s	3min 49s	19s	42s	2s

Grafana

1. Node exporter

2. Jenkins

Sonarqube

Prometheus

Application output: