

# **SonarQube Setup and JavaScript Project Analysis**

This document provides a comprehensive guide to setting up SonarQube and analyzing a JavaScript project using SonarQube and SonarScanner on Ubuntu servers.

The process includes the setup of both the SonarQube server and the project server.

# 1. SonarQube Server Setup

Performed on an Ubuntu machine:

1. Create a new user and download SonarQube:

- ``sudo adduser sonar``
- ``sudo wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-10.4.1.88267.zip``
- ``sudo unzip sonarqube-10.4.1.88267.zip``
- ``sudo mv sonarqube-10.4.1.88267 sonarqube``

2. Change ownership and install Java:

- ``sudo chown -R ubuntu:ubuntu sonarqube``
- ``sudo apt install openjdk-17-jre-headless -y``

3. Start SonarQube:

- Navigate to ``sonarqube/bin/linux-x86-64/``
- ``./sonar.sh start``
- Check status using ``./sonar.sh status``

SonarQube is now accessible via ``http://54.161.45.153:9000``.

## 2. JavaScript Project Setup and Sonar Analysis

Performed on a separate Ubuntu project server:

### 1. Environment setup:

- Install Node.js and npm if not already installed.
- Clone project: ``git clone https://github.com/daniyel7devops/angularjs-project-example.git``

### 2. Install project dependencies and build:

- Navigate to the project directory: ``cd angularjs-project-example``
- Run ``npm install`` and ``npm run build``
- If required, add: ``export NODE_OPTIONS=--openssl-legacy-provider``

### 3. Install SonarScanner:

- ``wget`

`https://binaries.sonarsource.com/Distribution/sonar-scanner-cli/sonar-scanner-cli-5.0.1.3006-linux.zip``

- ``unzip`` and move to ``/opt/sonar-scanner``
- Add to PATH: ``export PATH=$PATH:/opt/sonar-scanner/bin``

### 4. Run SonarQube analysis:

````bash`

`sonar-scanner \`

- `-Dsonar.projectKey=my-js-app \`
- `-Dsonar.sources=. \`
- `-Dsonar.host.url=http://54.161.45.153:9000 \`
- `-Dsonar.login=sqa_4c4e8aefbf6b6fd4ba320b6d3bc4fbb1409ae8c8`

...

This command initiates the scan and uploads the results to the SonarQube server.

### 3. Analysis Result Output (SonarQube Dashboard)

Below is the screenshot of the SonarQube dashboard after a successful analysis of the JavaScript project. The project named 'my-js-app' passed all quality gates with metrics indicating no security issues, good reliability, and maintainability.

