

SonarQube Installation and Configuration Guide

Steps to Install and Configure SonarQube on Ubuntu

1. Extract SonarQube Package

```
cd /opt/  
unzip sonarqube-10.4.1.88267.zip  
sudo mv sonarqube-10.4.1.88267 sonarqube
```

2. Set Proper Ownership

```
sudo chown -R ubuntu:ubuntu sonarqube
```

3. Start SonarQube Server

```
cd sonarqube/bin/linux-x86-64/  
sudo ./sonar.sh start  
sudo ./sonar.sh status
```

4. Install Java (OpenJDK 17)

```
sudo apt install openjdk-17-jre-headless -y
```

5. Check Running Services

```
sudo apt install net-tools  
sudo netstat -ntpl
```

Maven Project Configuration with SonarQube

1. Install Maven

```
sudo apt install maven -y
```

2. Clone Your Java Project

```
git clone https://github.com/daniyel7devops/docker-Java-kubernetes-project.git  
cd docker-Java-kubernetes-project/productcatalogue/
```

3. Run SonarQube Analysis

```
mvn clean verify sonar:sonar \  
-Dsonar.projectKey=my-project \  
-Dsonar.host.url=http://98.84.180.157:9000 \  
-Dsonar.login=sqa_0d1d2430f8e629a45dc4e65db5938e66c0c70149
```

Install SonarScanner (Optional CLI Tool)

wget

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

```
unzip sonar-scanner-5.0.1.3006-linux.zip
```

```
sudo mv sonar-scanner-5.0.1.3006-linux /opt/sonar-scanner
```

```
echo 'export PATH=$PATH:/opt/sonar-scanner/bin' >> ~/.bashrc
```

```
source ~/.bashrc
```

SonarQube Project Dashboard Screenshot

← → ↻

Not secure 98.84.180.157:9000/projects

☆

≡

🔴

⋮

sonarqube

Projects

Issues

Rules

Quality Profiles

Quality Gates

Administration

More

🔍

?

A

My Favorites

All

Filters

Quality Gate

✓ Passed

1

✗ Failed

0

Reliability

A

1

B

0

C

0

D

0

E

0

Create Project

🔍 Search for projects...

Perspective

Overall Status

Sort by

Name

📈 1 project(s)

☆ shopfront PUBLIC

✓ Passed

Last analysis: 2 minutes ago • 317 Lines of Code • Java, XML

A 0

Security

A 6

Reliability

A 9

Maintainability

E 0.0%

Hotspots Reviewed

0.0%

Coverage

0.0%

Duplications

1 of 1 shown

Get the most out of SonarQube!

+

Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow. Connect SonarLint to SonarQube to sync rule sets and issue states.

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Embedded database should be used for