STEP 1️⃣ Install required Jenkins plugins (MANDATORY)

Go to:

Manage Jenkins → Plugins → Available

Install (or verify already installed):

✅ **Required**

✓ **SonarQube Scanner for Jenkins** (version **2.11+**)
👉 After installing → **Restart Jenkins**

STEP 2️⃣ Configure SonarQube Server in Jenkins

Go to:

Manage Jenkins → Configure System

Scroll to **SonarQube servers**

Add SonarQube Server

Field	Value
Name	SonarQube
Server URL	http://<SONAR_HOST>:9000
Server authentication token	Add credentials

Create SonarQube Token (IMPORTANT)

In **SonarQube UI**:

1. Login as admin/user

2. **My Account → Security**

3. Generate **Token**

4. Copy it

Back in Jenkins:

- Credentials → **Secret Text**

- Paste token

- Select it in SonarQube config

✓ Save

STEP 3️⃣ Configure Maven in Jenkins

Go to:

Manage Jenkins → Global Tool Configuration

Maven

- Name: maven

- Install automatically: ✓

- Version: **3.8.6** (recommended)

✓ Save

```
stage('Build & SonarQube Analysis') {

    steps {

      script {

        def mvn = tool 'maven'


        withSonarQubeEnv('SonarQube') {

          sh """

          ${mvn}/bin/mvn clean verify \

          org.sonarsource.scanner.maven:sonar-maven-plugin:sonar \

          -Dsonar.projectKey=sonardemo \

          -Dsonar.projectName=sonardemo

          """

        }

      }

    }

  }
```