**Name:** Atif Ansari

**Roll no:** 04

**Class:** D15B

**Experiment No 7**

**Aim:** Installing SonarQube from the Docker Image

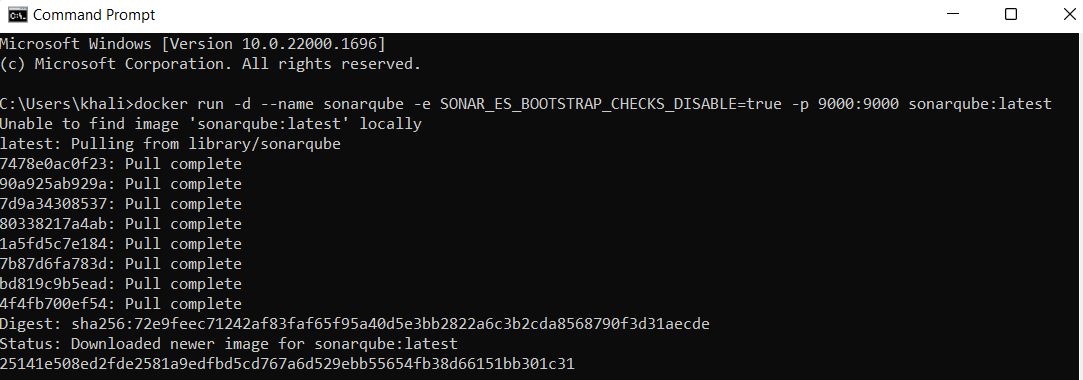
**Theory:**

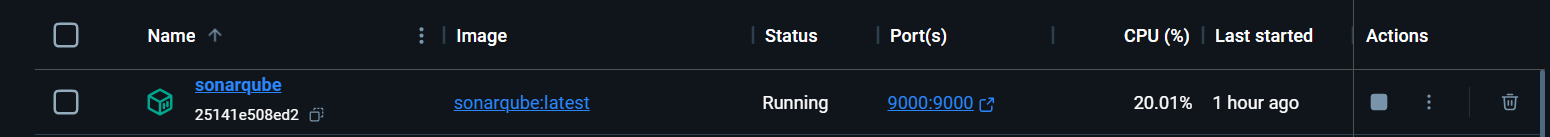
SonarQube is an open-source platform for continuous inspection of code quality. It helps developers manage code quality and security by identifying bugs, vulnerabilities, and code smells. Running SonarQube in a Docker container simplifies the installation process, allowing for a quick setup and configuration. This experiment also integrates SonarQube with Jenkins, enabling automated code analysis in CI/CD pipelines.

**Steps:**

$ docker run -d --name sonarqube -e SONAR\_ES\_BOOTSTRAP\_CHECKS\_DISABLE=true -p 9000:9000

Sonarqube:latest

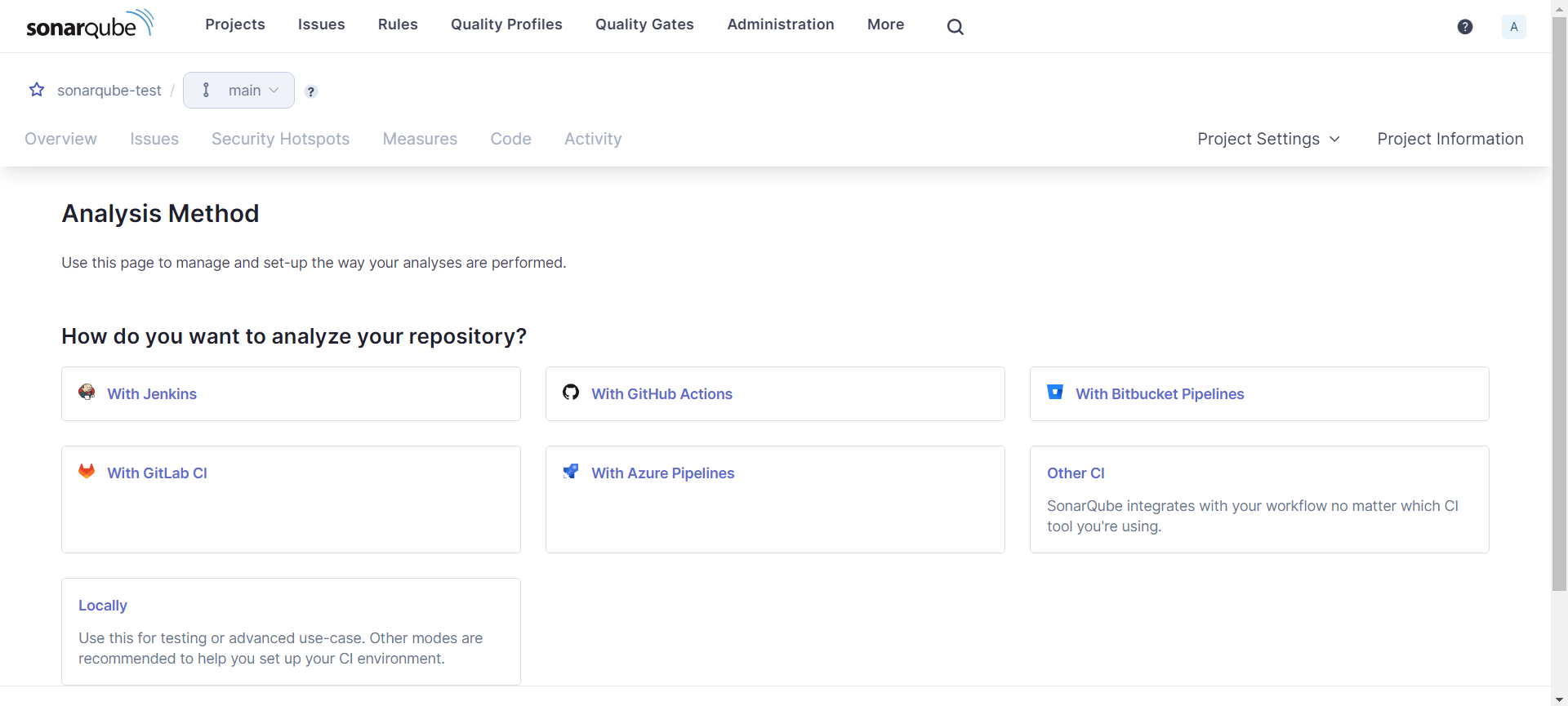
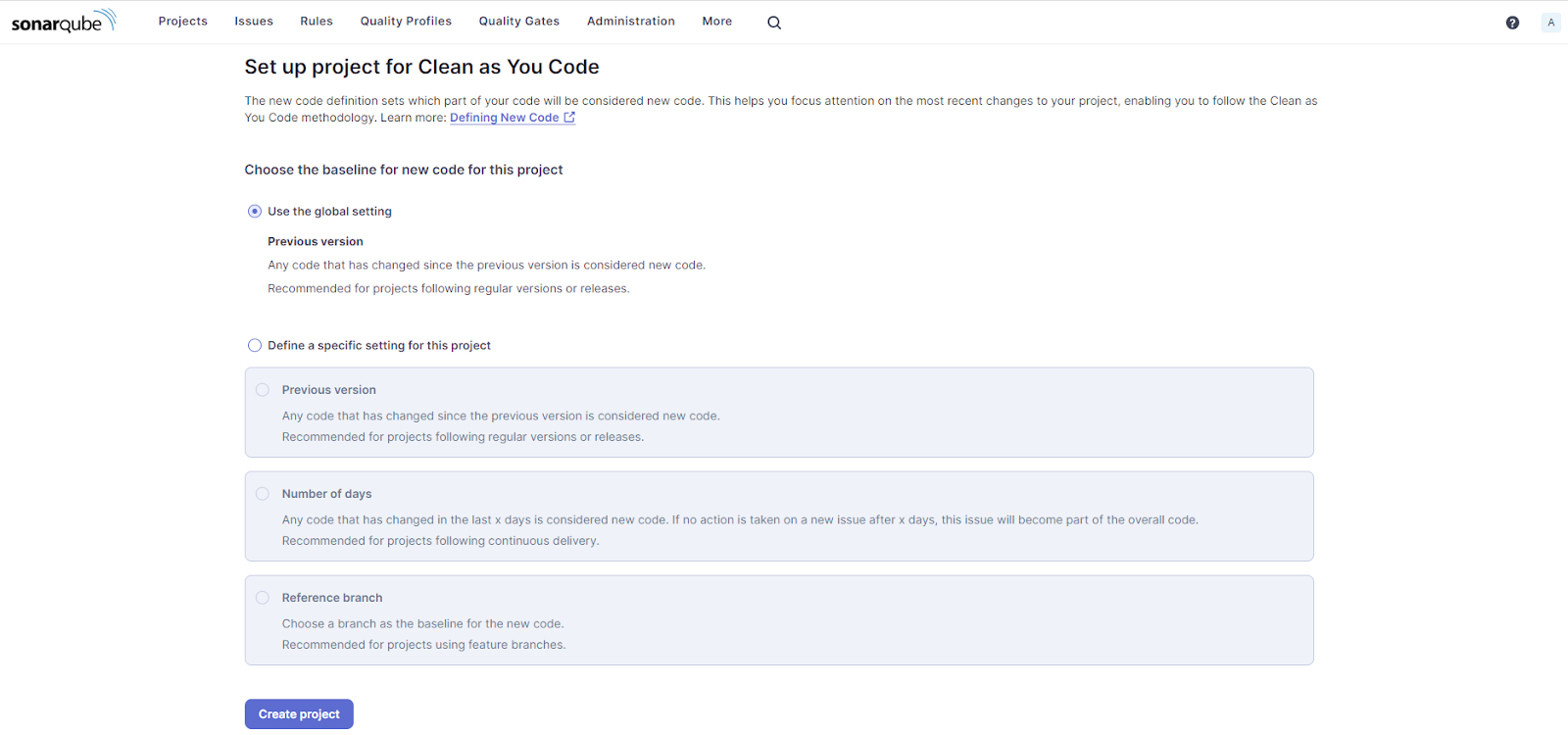




**go to the SonarQube page by typing:**

http://localhost:9000/ on your browser.

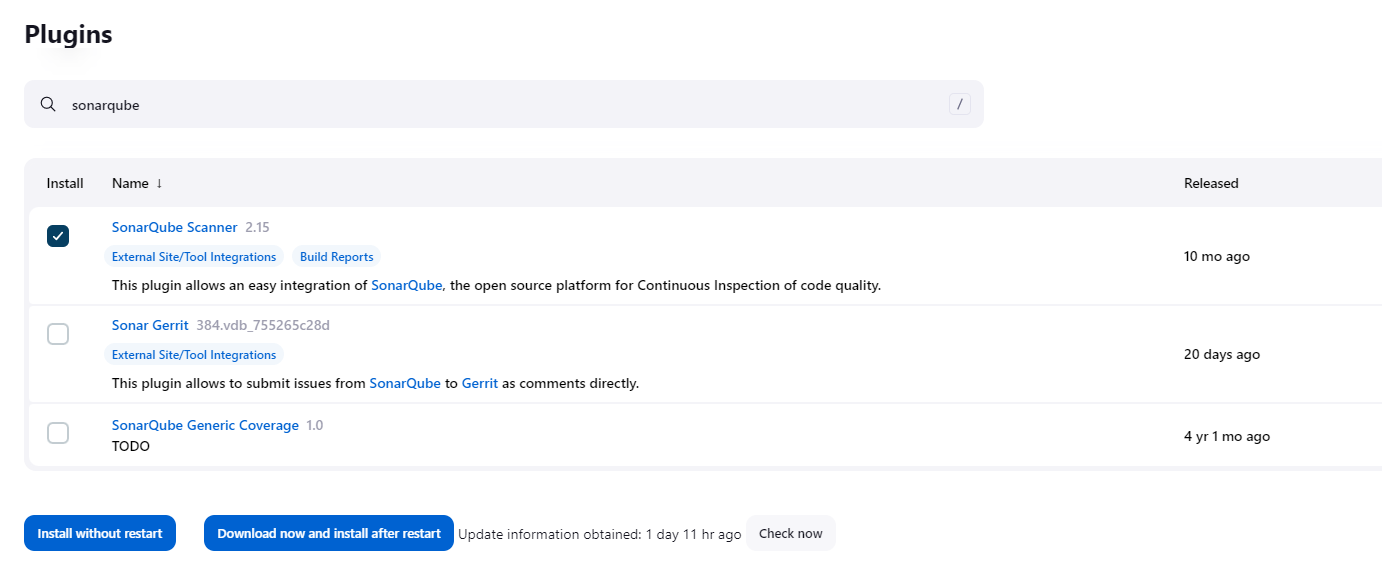
**Create project manually:**

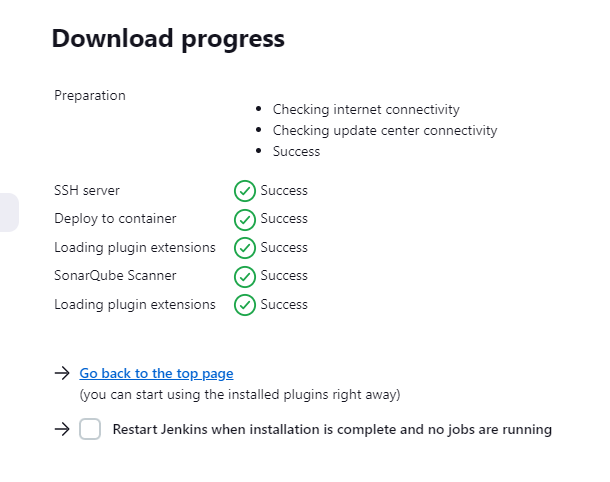


**open Jenkins**

Go to Dashboard ->Manage Jenkins -> Plugin Manager and search for

SonarQube Scanner under Available plugins for Jenkins and install without restart.



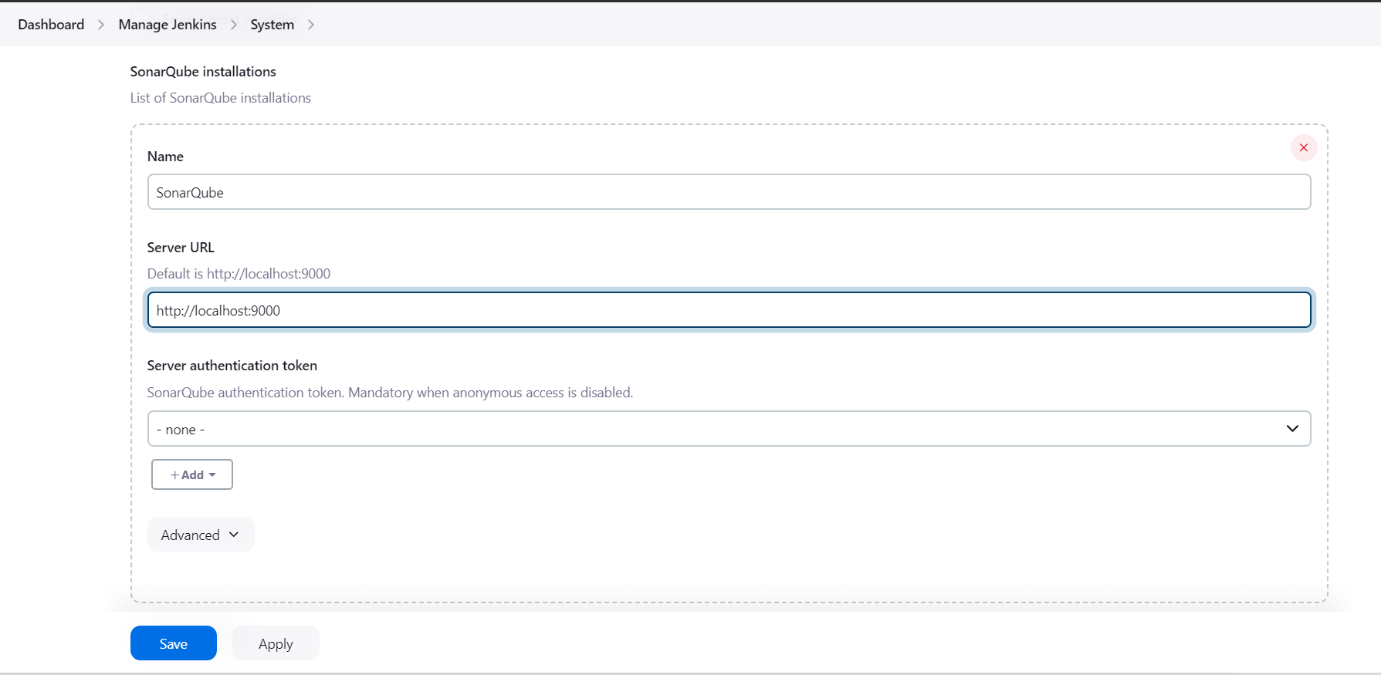


**Under Jenkins** ,

Dashboard -> Manage Jenkins -> Configure System ,

Look for SonarQube Servers and enter the details. Enter the Server Authentication Token

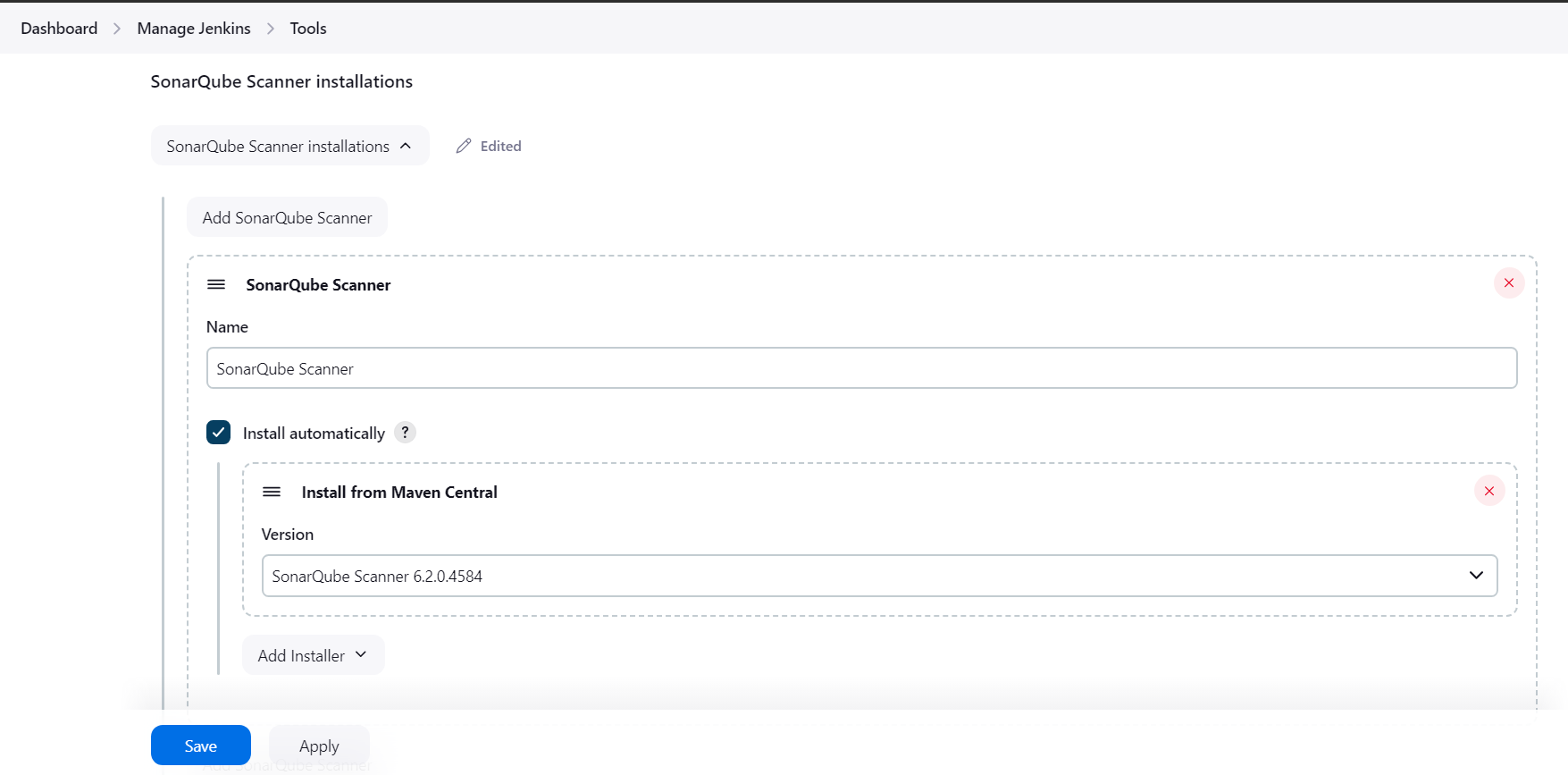
if needed.



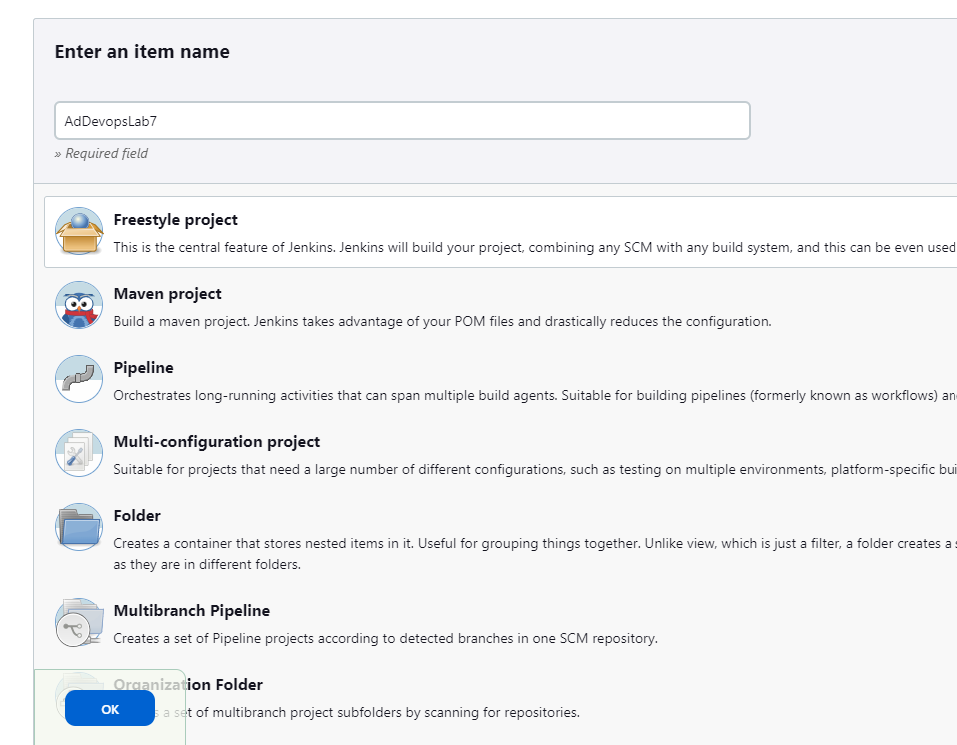
Search SonarQube Scanner under Dashboard -> Manage Jenkins -> Global

Tool Configuration.

**Choose the latest configuration and choose Install Automatically.**



**create a New Item in Jenkins, choose a freestyle project.**



**Choose this GitHub repository in Source Code Management.**

https://github.com/shazforiot/MSBuild\_firstproject.git

Under Build ->Execute SonarQube Scanner, enter these Analysis

properties. Mention the SonarQube Project Key, Login, Password, and Host

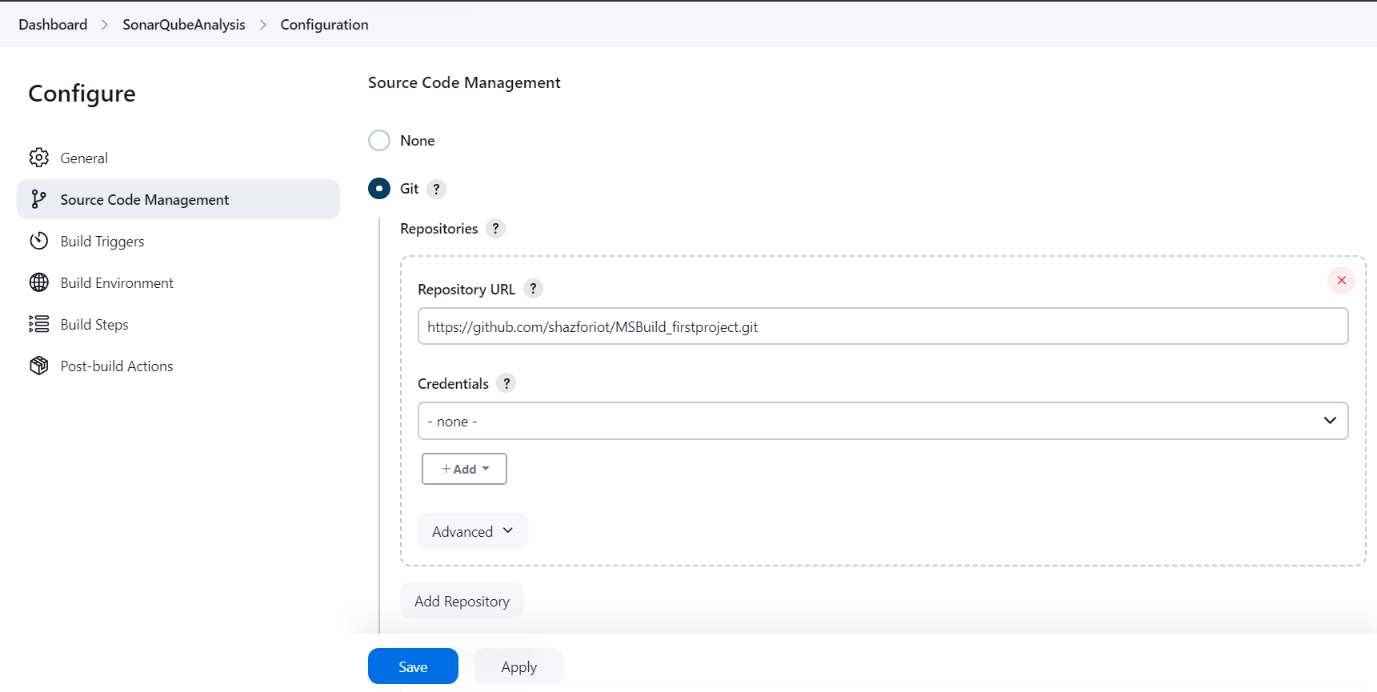
URL.

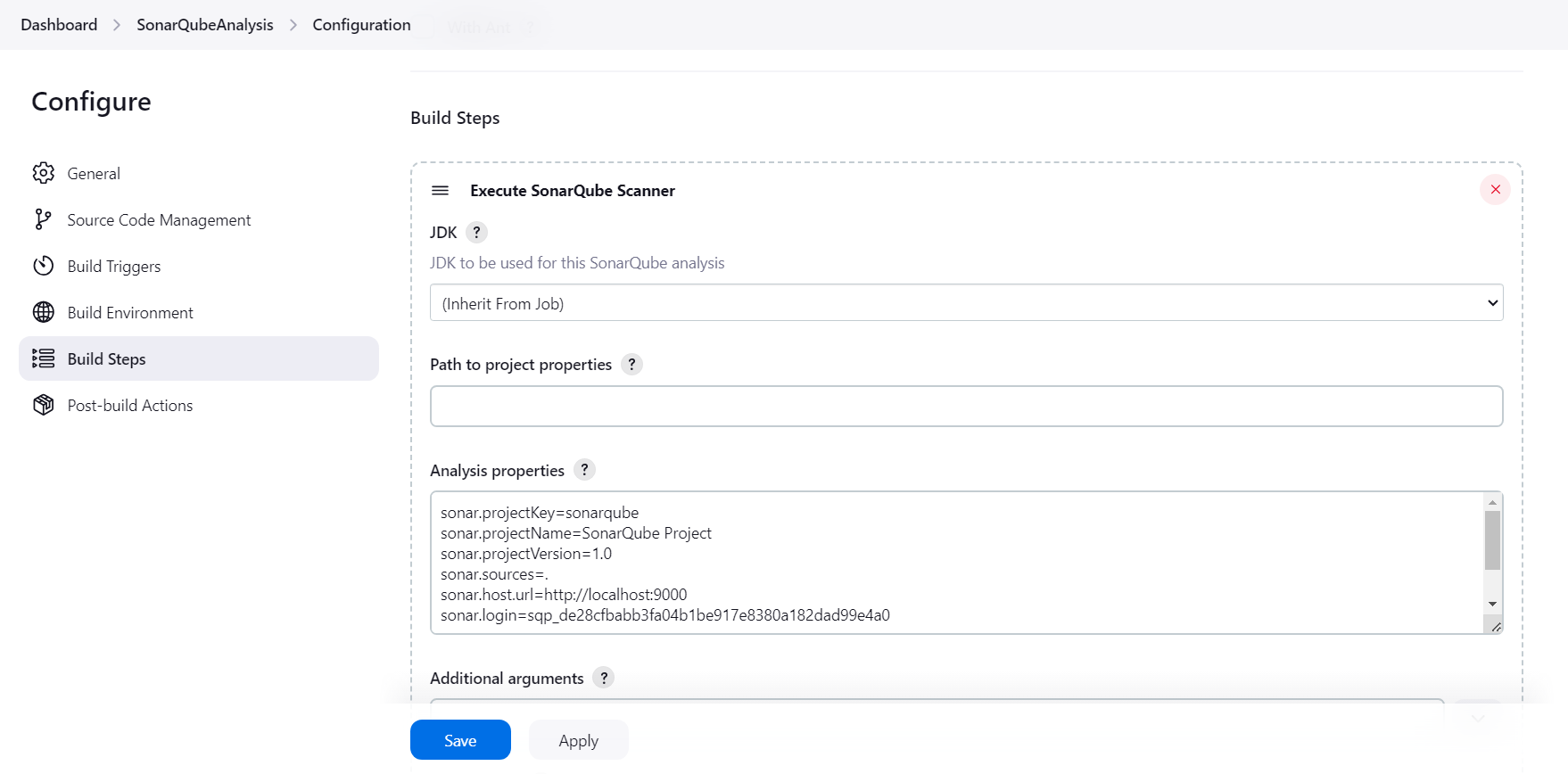
sonar.projectKey=AdDevops

sonar.login=admin

sonar.password=abc

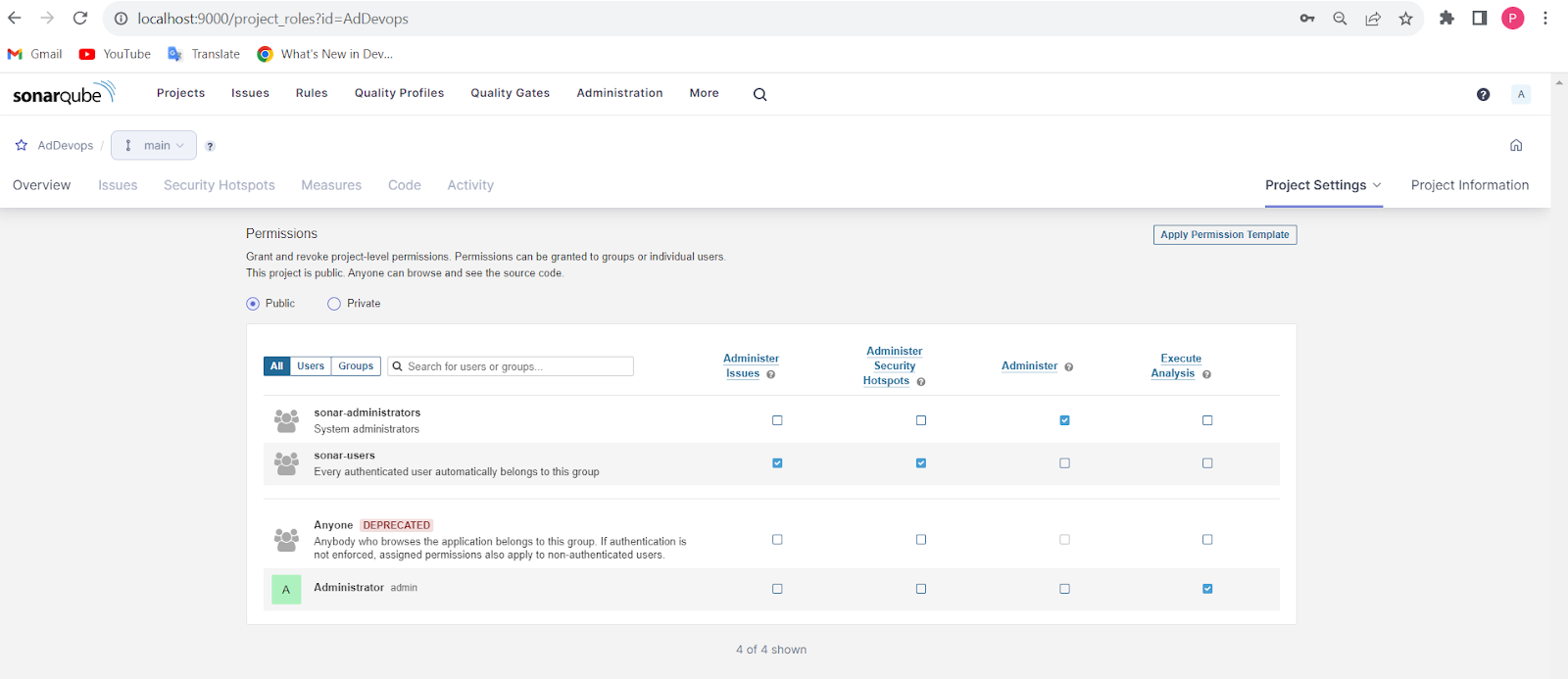
sonar.hosturl=<http://localhost:9000/>





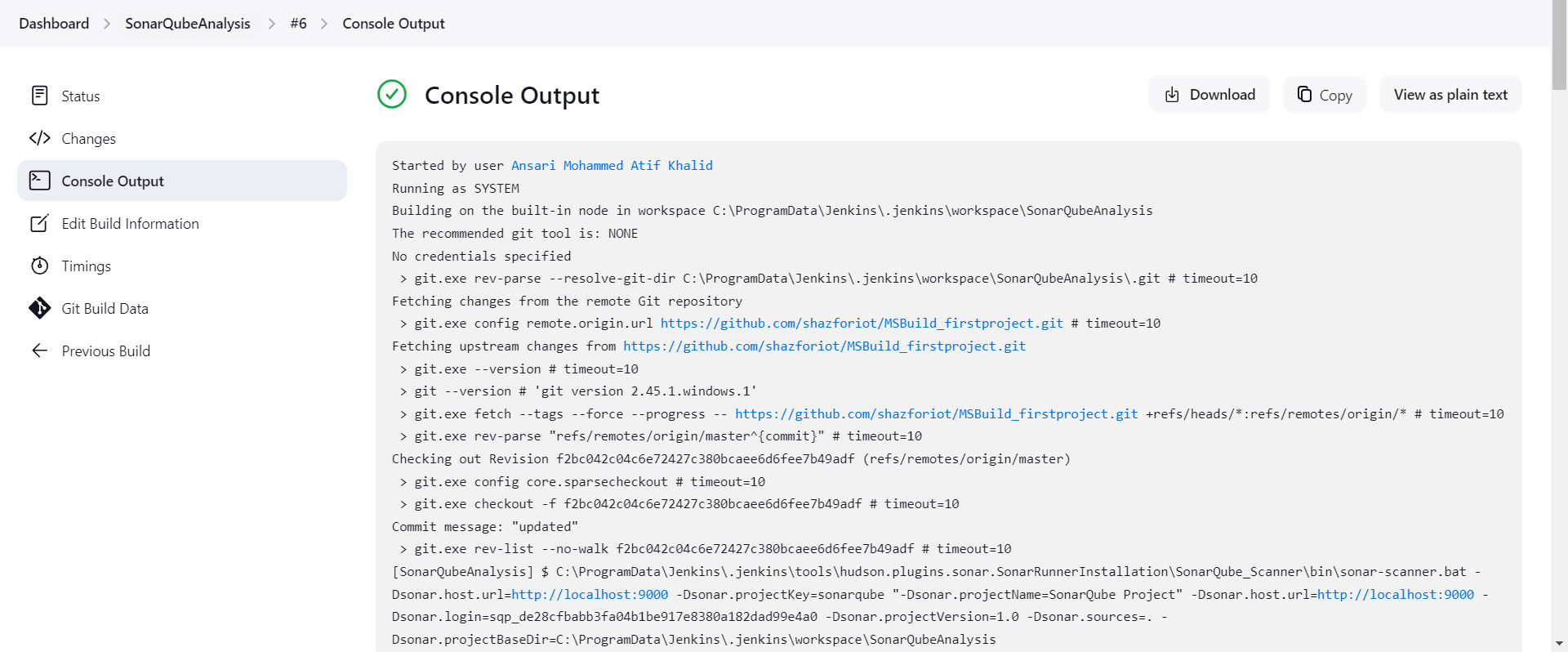
Go to http://localhost:9000/ and enter your previously created username.

**Go to Permissions and grant the Admin user Execute Permissions.**

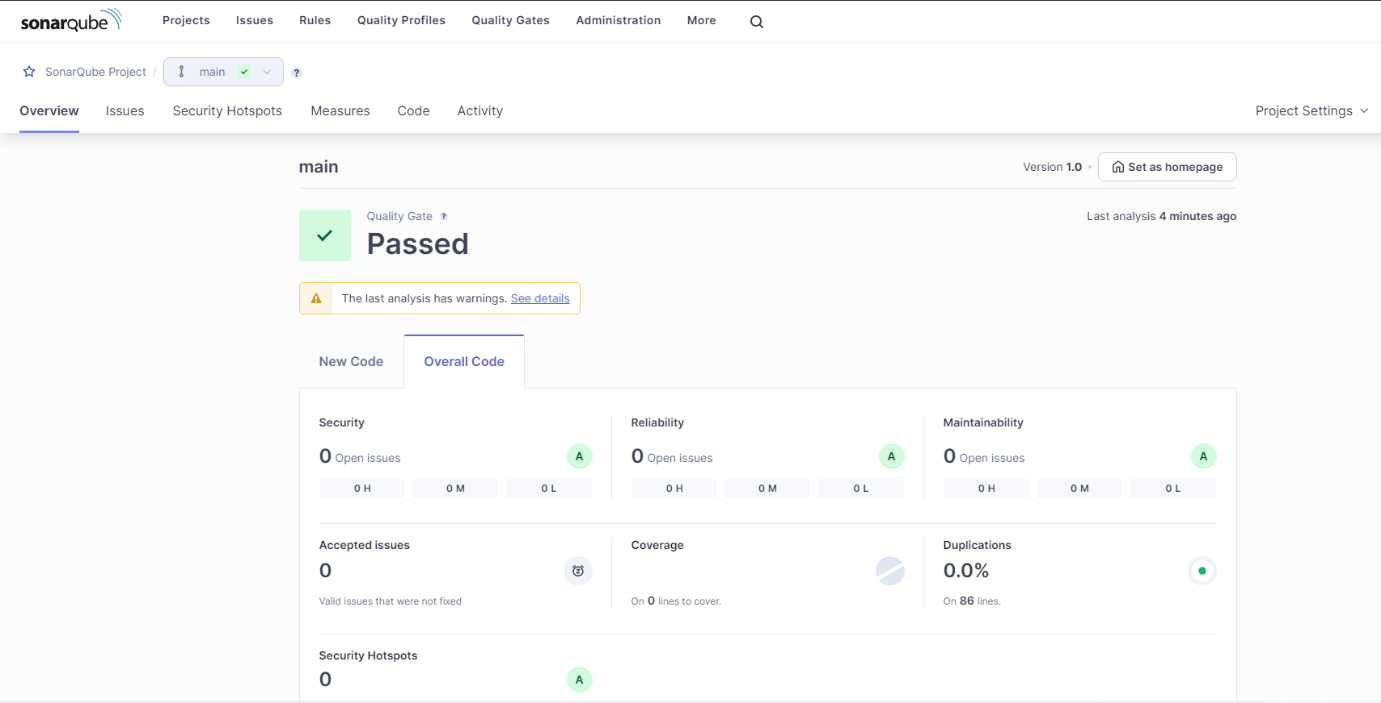


**Build and Run:**

**Console Output:**



**Project on sonarqube:**



**Conclusion:** Thus, we have successfully installed SonarQube from Docker image.