Experiment No 7

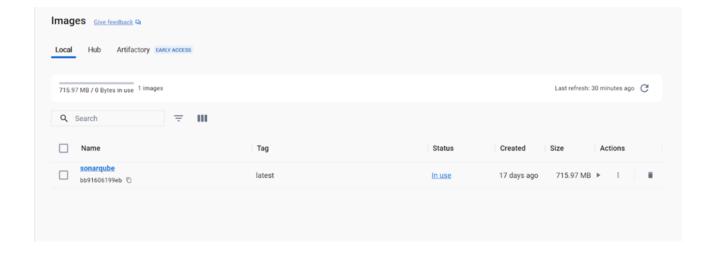
AIM: Installing SonarQube from the Docker Image

\$ docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000

Sonarqube:latest

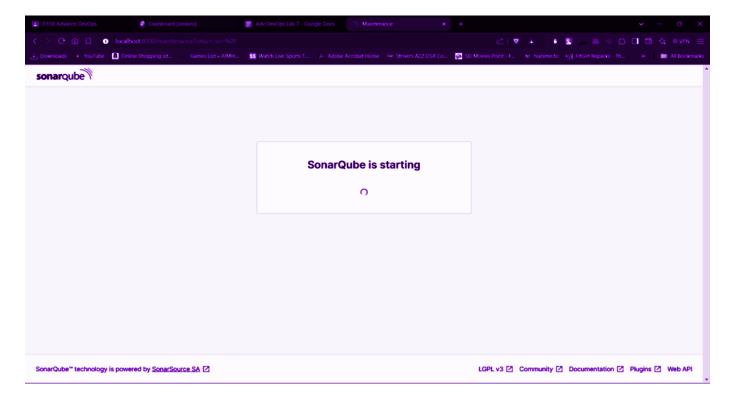
```
Windows PowerShell X + V - - - - - X

PS C:\Users\susha> docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqube:latest
Unable to find image 'sonarqube:latest' locally
latest: Pulling from library/sonarqube
7478e0ac06f23: Pull complete
90a925ab929a: Pull complete
404934308537: Pull complete
80338217a4ab: Pull complete
la5fd5c7e184: Pull complete
bd819c9b5ead: Pull complete
bd819c9b5ead: Pull complete
4f4fb700ef54: Pull complete
Uigest: sha256:72e9feec71242af83faf65f95a40d5e3bb2822a6c3b2cda8568790f3d31aecde
Status: Downloaded newer image for sonarqube:latest
076e3ldcde3ee9f521b91997bc0acce7d36dfee8dfafbcd325053fd99eff67ca
PS C:\Users\susha>
```

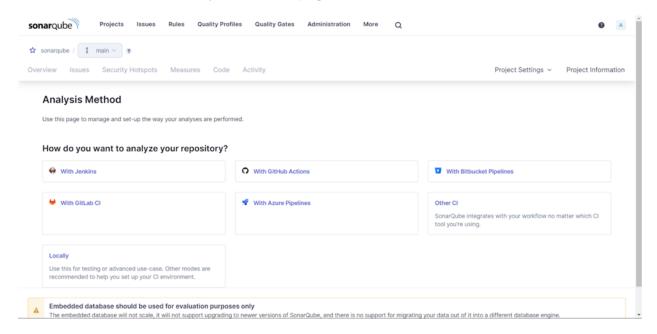


go to the SonarQube page by typing:

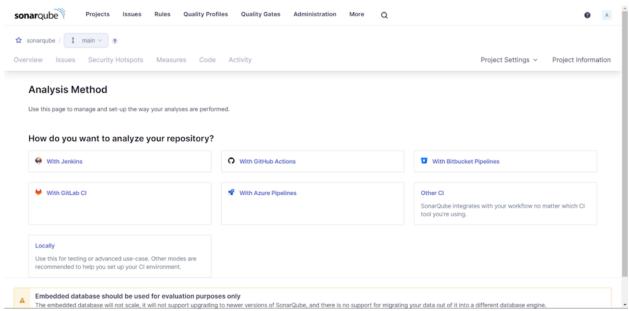
http://localhost:9000/ on your browser.



Installation is successful if you see this page

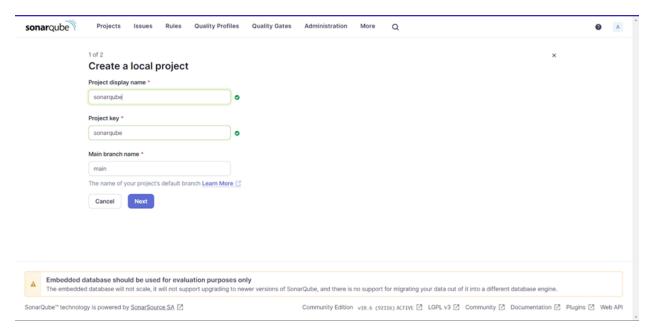


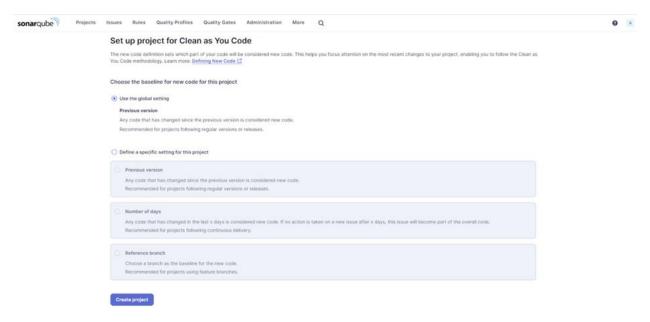
Update to new password



Create project manually:

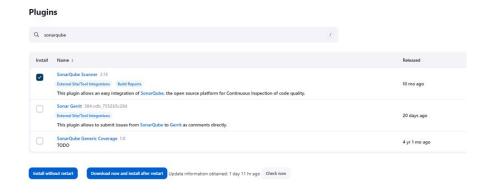
Here project name is "AdDevops"



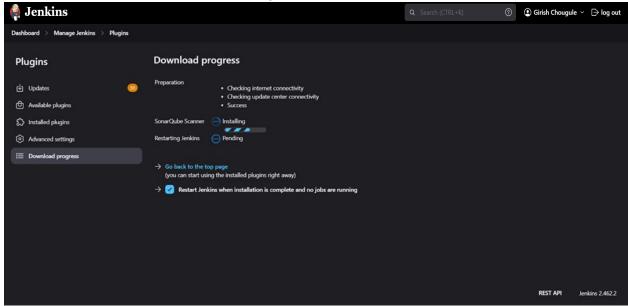


open Jenkins

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



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

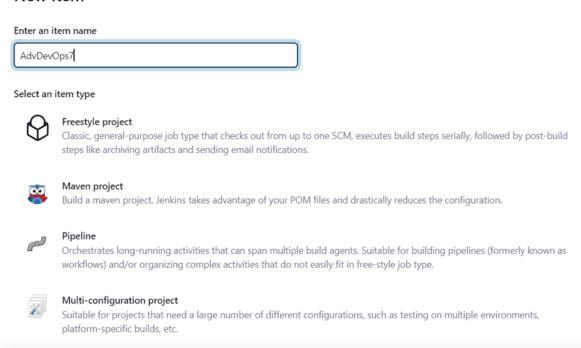
Tool Configuration.

Choose the latest configuration and choose Install Automatically.



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

New Item



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.

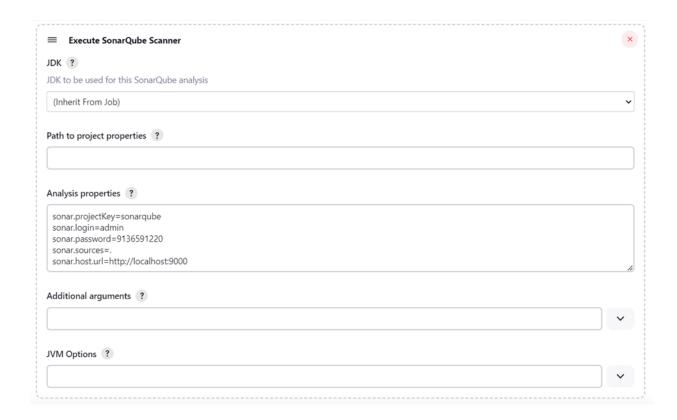
sonar.projectKey=AdDevops

sonar.login=admin

sonar.password=abc

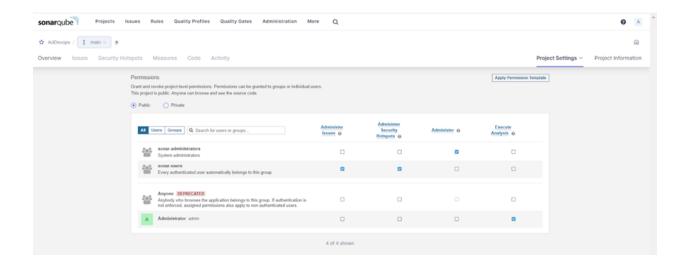
sonar.hosturl=http://localhost:9000/



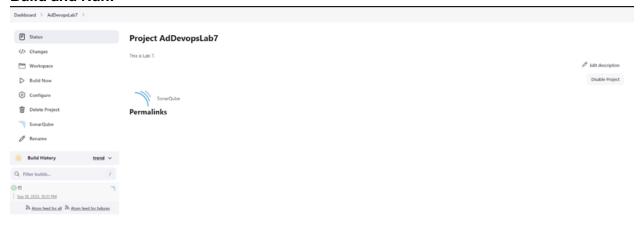


Go to http://localhost:9000/ and enter your previously created username.

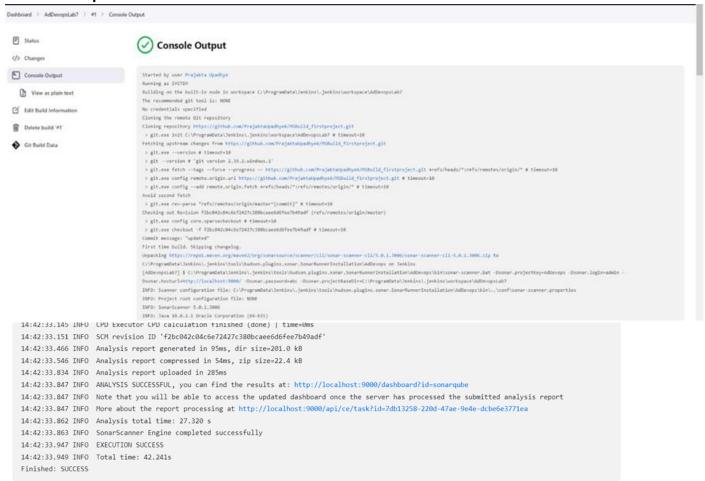
Go to Permissions and grant the Admin user Execute Permissions.



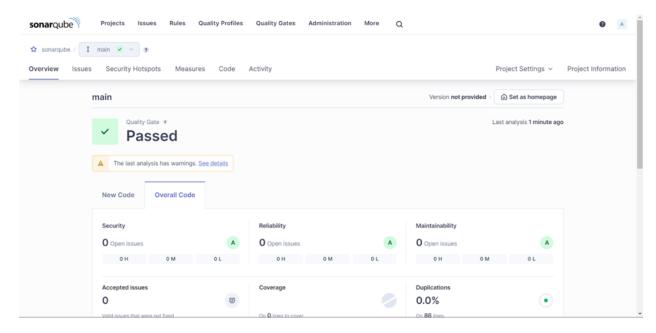
Build and Run:



Console Output:



Project on sonarqube:



Conclusion:

Thus, we have successfully installed SonarQube using a Docker image, providing a seamless setup for continuous code quality analysis. This approach simplifies the deployment process, ensures easy scalability, and enhances development workflows with robust code review and testing capabilities in a containerized environment.