Documentation for learning:

Requirement:

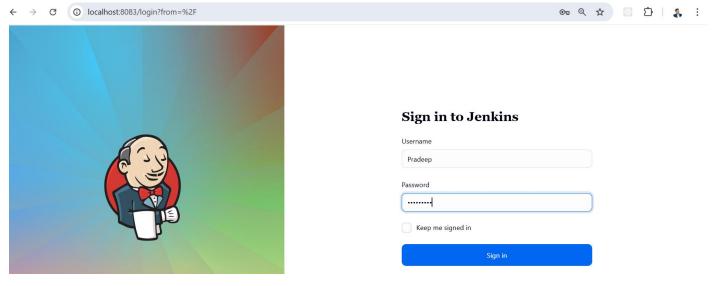
- 1) Create project on git hub
- 2) Create a pipeline in Jenkin
- 3) Do the configuration in Jenkin it execute Jenkin script from project.
- 4) Jenkin pipeline should run in 30 min and also can be run manually.
- 5) Create a docker image of application and Jenkin should deploy the project in Docker.
- 6) Jankin Pipeline will Checkout, Build, SonarQube Analysis, Docker Build, Test and deploy on docker hub.

Prerequisite

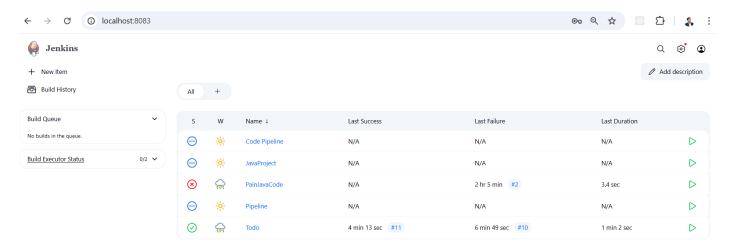
- 1)Create account on Github and push your code to git hub.
- 2)Install docker desktop and create account on docker hub start the docker
- 3)Install sonar and run it locally
- 4)Install Jenking and run it locally

Solution

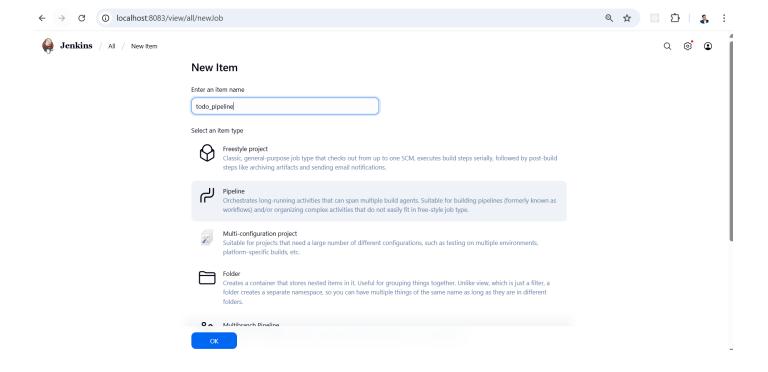
Login to jenkin[Pradeep/Test@....]



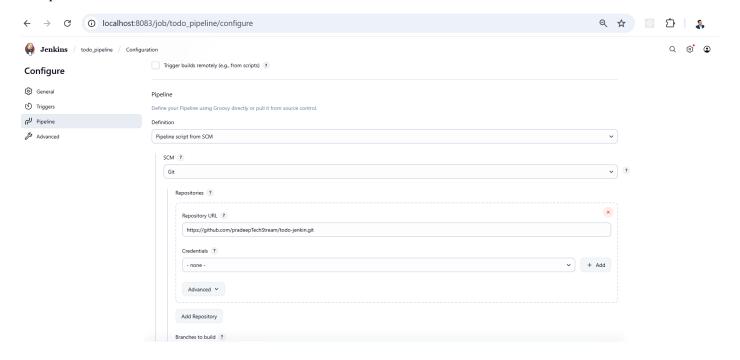
Click on New Item

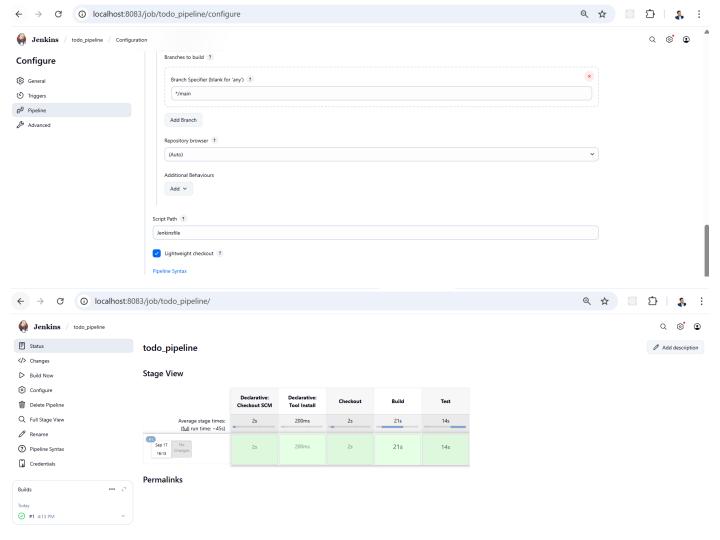


Enter name you want to give pipeline and also select pipeline plugin and click on OK

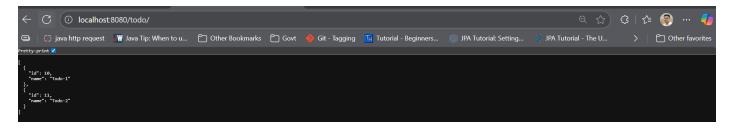


In Pipeline section



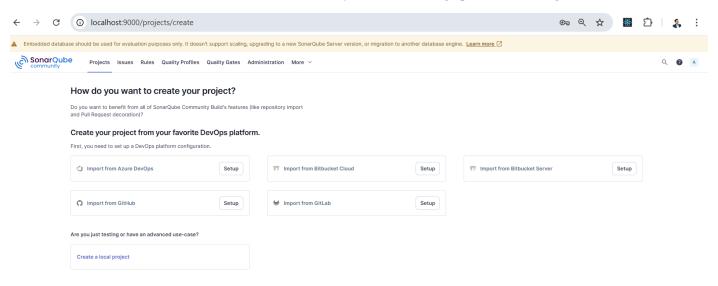


Deployed the code on docker

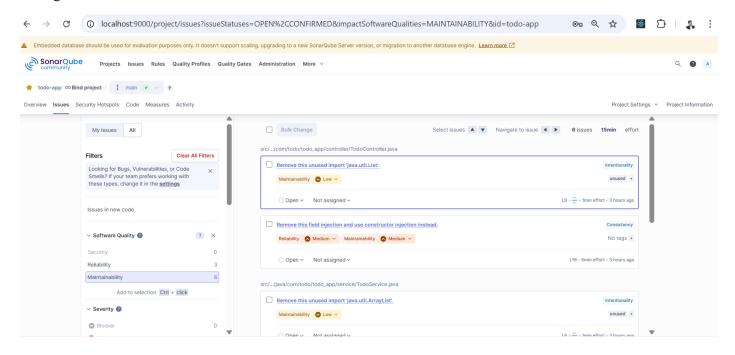


Install sonar and run command to start: C:\sonarqube\bin\windows-x86-64\StartSonar.bat

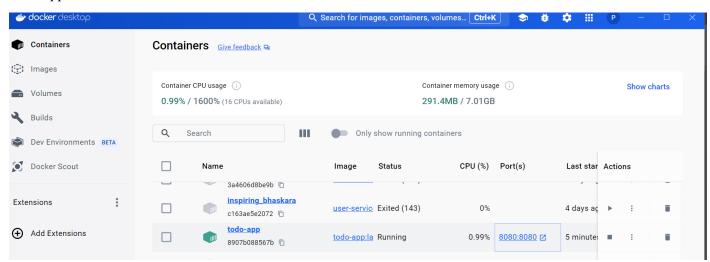
After installation default credential is admin / admin but you need to change password [Test@2..1#..3]



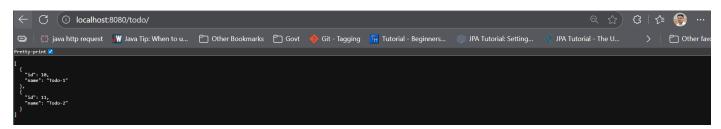
Configuration done for sonar as well.



Todo app on docker hub container



REST API is working for Todo



Jenkin will build + Test + Run Sonar + deploy the code on Docker