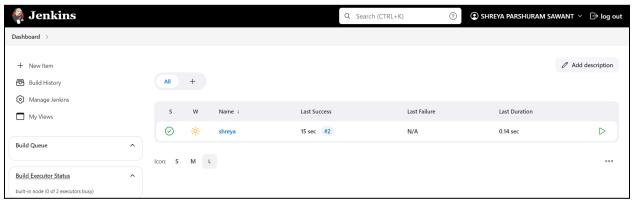
### **Experiment.7**

**Aim:** To understand Static Analysis SAST process and learn to integrate Jenkins SAST to SonarQube/GitLab.

Step.1 Open up Jenkins Dashboard on localhost, port 8080 or whichever port it is at for you.



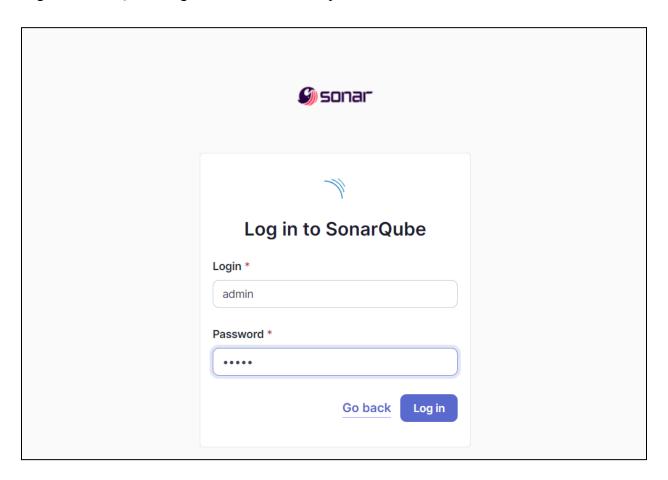
Step.2 Run SonarQube in a Docker container using this command - docker run -d --name sonarqube -e SONAR\_ES\_BOOTSTRAP\_CHECKS\_DISABLE=true -p 9000:9000 sonarqube:latest

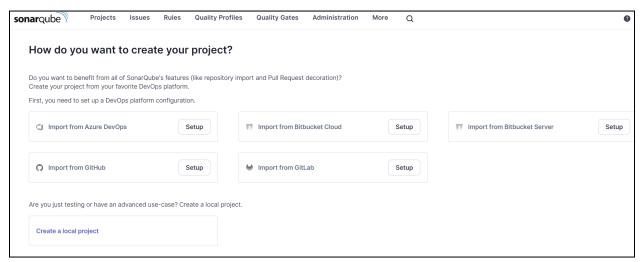
```
PS C:\Users\sawan> docker -v
Docker version 27.1.1, build 6312585
```

```
PS C:\Users\sawan> docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHEC
KS_DISABLE=true -p 9000:9000 sonarqube:latest
Unable to find image 'sonarqube:latest' locally
latest: Pulling from library/sonarqube
7478e0ac0f23: Pull complete
90a925ab929a: Pull complete
7d9a34308537: Pull complete
80338217a4ab: Pull complete
1a5fd5c7e184: Pull complete
7b87d6fa783d: Pull complete
bd819c9b5ead: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:72e9feec71242af83faf65f95a40d5e3bb2822a6c3b2cda8568790f3d31ae
cde
Status: Downloaded newer image for sonarqube:latest
23c4905f5f439b89ce26341b6f016db921c6d4546f70a2450366e258833428e7
PS C:\Users\sawan>
```

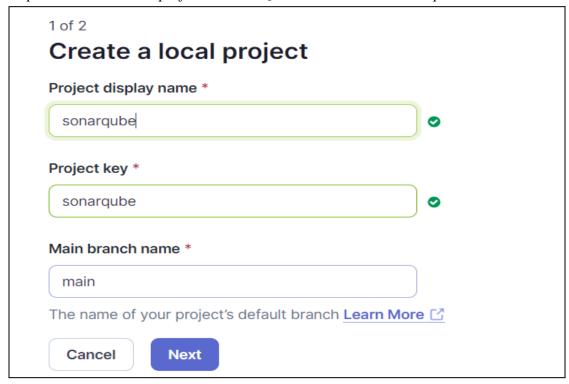
Step.3 Once the container is up and running, you can check the status of SonarQube at localhost port 9000.

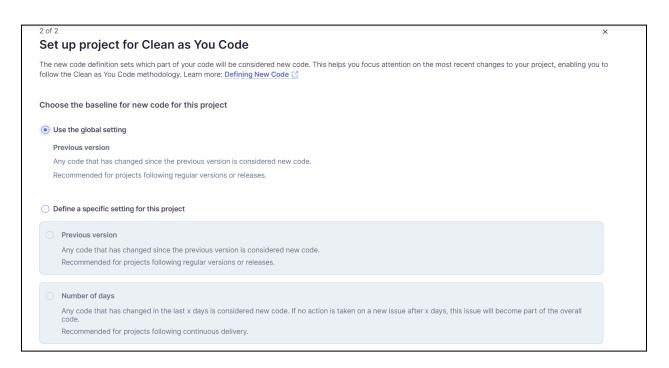
Login to SonarQube using username admin and password admin.





Step.4 Create a manual project in SonarQube with the name sonarqube





#### Shreya Sawant D15A - 54

Step.5 Setup the project and come back to Jenkins Dashboard.

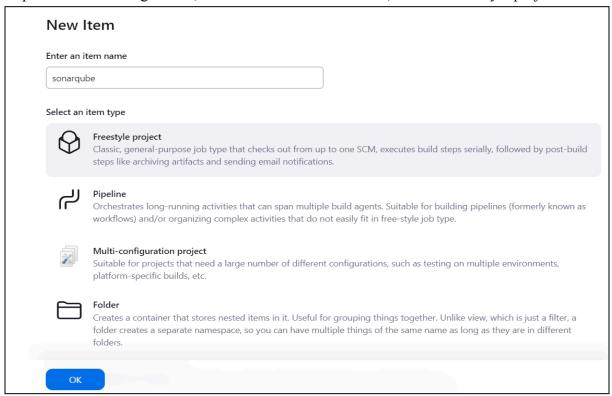
Go to Manage Jenkins and search for SonarQube Scanner for Jenkins and install it.

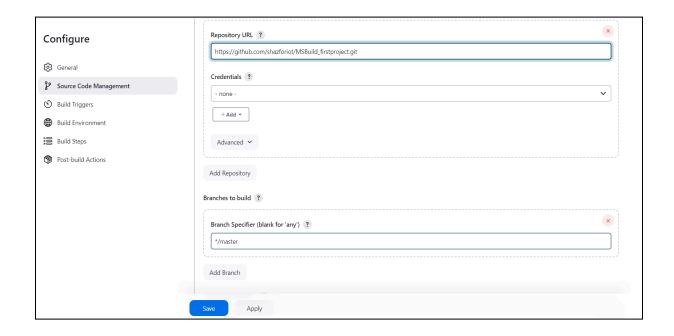


Step.6 Under Jenkins 'Configure System', look for SonarQube Servers and enter the details. Enter the Server Authentication token if needed.



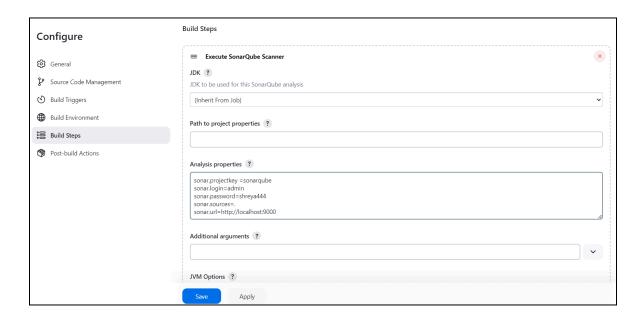
Step.7 After the configuration, create a New Item in Jenkins, choose a freestyle project.

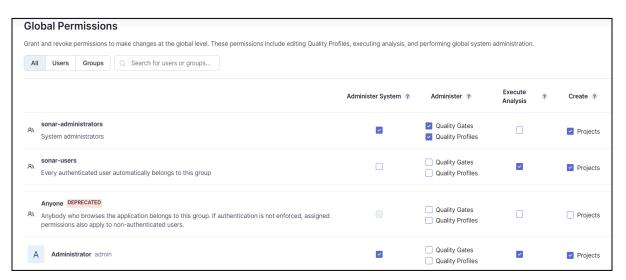




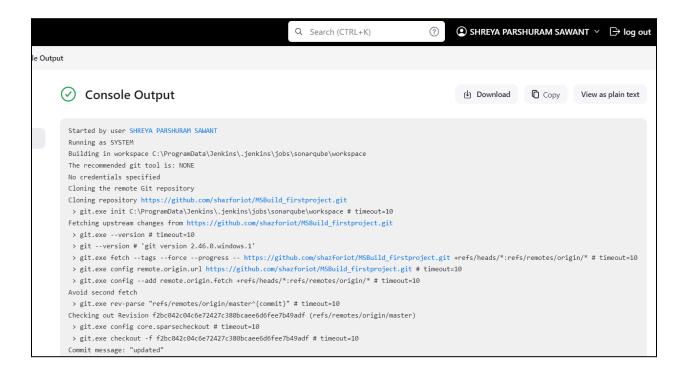
#### Shreya Sawant D15A - 54

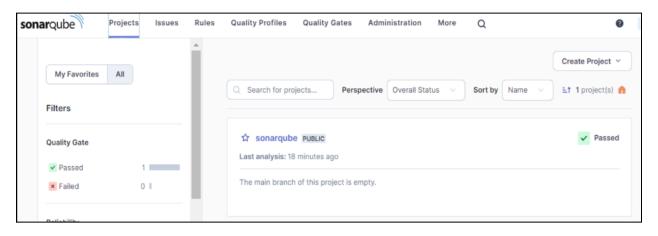
Step.8 Under Build-> Execute SonarQube Scanner, enter these Analysis properties. Mention the SonarQube Project Key, Login, Password, Source path and Host URL.





# Step.9 Run The Build. Check the console output.





## Shreya Sawant D15A - 54

