Resource:

- https://en.wikipedia.org/wiki/SonarQube
- Valaxy Technologies

Sonarqube:

- SonarQube is a platform for analyzing software for bugs, vulnerabilities, and code smells.
- In addition to performing a variety of static analysis checks on your source, it presents the results in the form of rich reports that make it easy for you to improve your application's security and stability.
- It is an open-source platform developed by SonarSource.

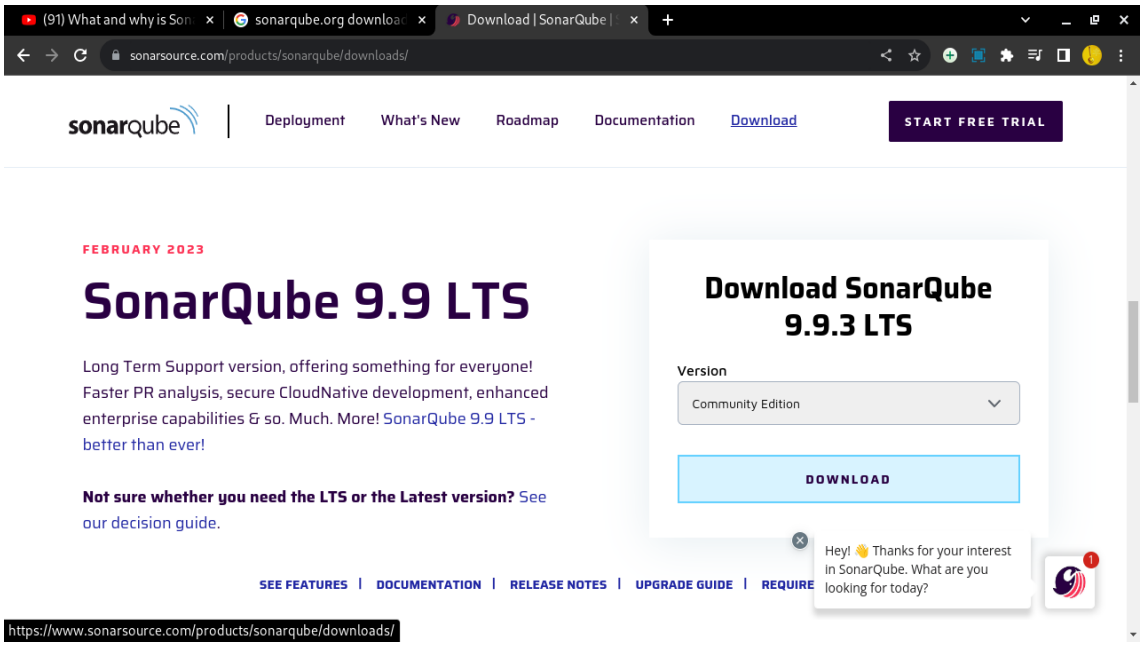
Why we need Sonarqube..?

- Sonarqube improves productivity by enabling development teams to identify and muzzle redundancy and duplication of code.
- Sonarqube makes it easier for team members to decrease application size, code complexity, time and cost of maintenance and make code easier to read and understand.
- In terms of CyberSecurity it ensure source code quality and application security by identifiying and rectifying code duplications and potential bugs.

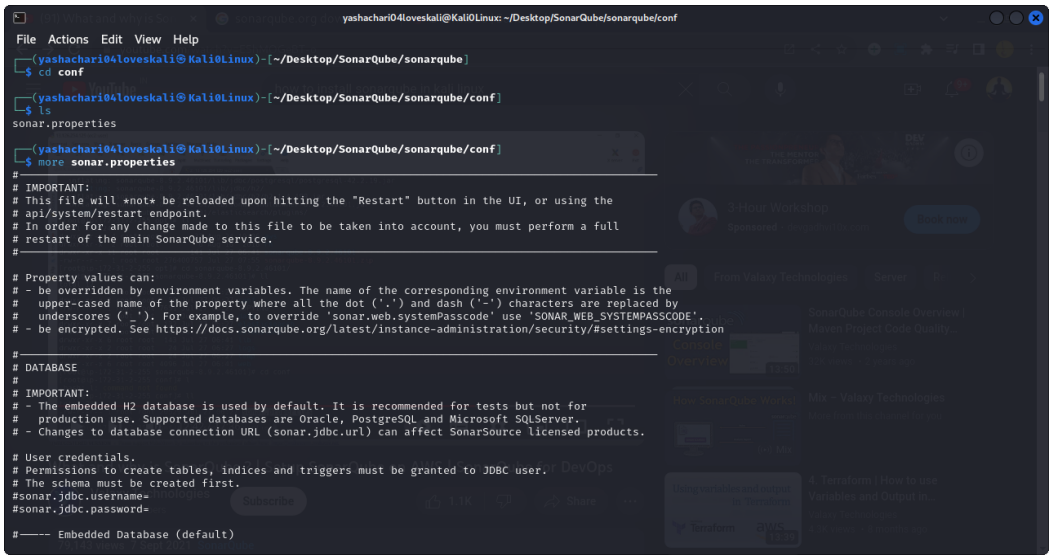
Installation:

- For using Sonarqube you must install JDK 11 or later version.
- From Official website of Sonarqube you download the zip file of Sonarqube
- Or by using the below link you can able to download Sonarqube.

https://www.sonarsource.com/products/sonarqube/downloads/



- After downloading the zip file unzip the file and extract the things in it.
- Move to the Sonarqube extracted directory, there we can fing the bin, config and more directories
- Move to config directory



- Here in Sonar.properties file we can find all the sonar properties
- Move to bin folder, in bin folder move to the respective systems directory and run the .sh file
- For running the Sonarqube all the files and directories must not follow the root user as root user not able to run the Sonarqube.
- For getting the permissions to the other user we can use the following command.

chown –R otherusername:otherusername /opt/sonardirectory

- We can start the sonarqube by running the .sh file using following command

./sonar.sh start

- We can also check the status of the sonarqube using the following command

./sonar.sh status

- If any errors occurs we can check the errors in logs folder as it records all the activities of the Sonarqube.
- For checking the which ports on Sonarqube is running we can use the following command.

netstat –tuplne

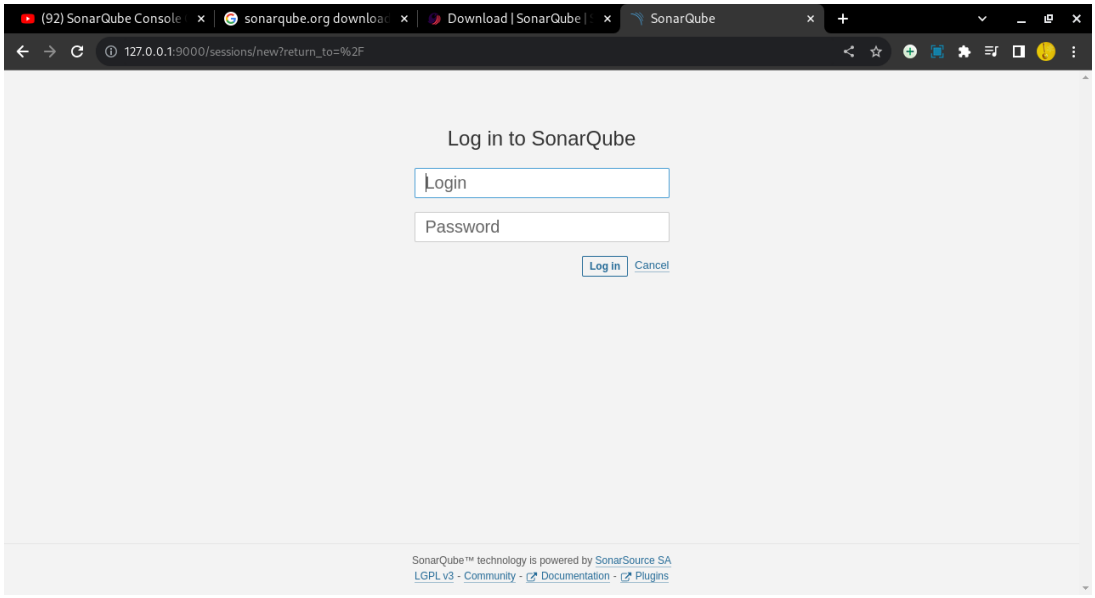
- There we can see that the web port of the sonarqube is open and running.

  Web port of the Sonarqube in :::9000.

- Using the your system IP address and web port of the sonarqube we can go the sonar web login.

User_IP_address:9000 for getting into the sonar web login

Sonarqube Web Login view:



- The default login credential of the Sonarqube is admin

  User name: admin

  Password: admin

- After login completed it asks to create your own password set your own password and login

  We can redirect to the web of Sonarqube.

Sonar Web View: