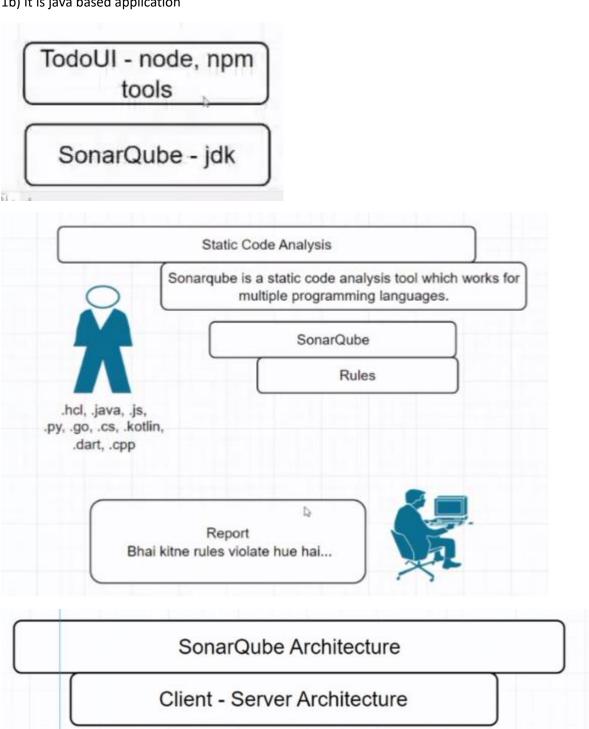
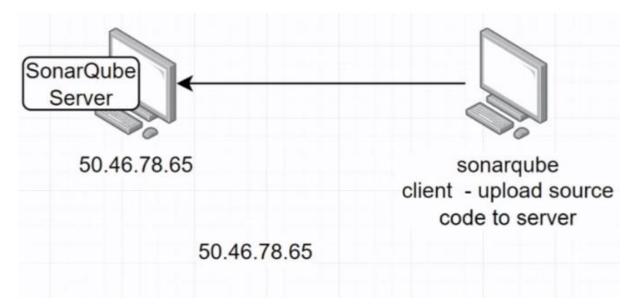
31 August 2024 – Environments, Deployment Groups and Sonarcube

- 1) Sonar Cube is a static code analysis tool that works for multiple programming languages. It has predefined rules inside it and when we write our code then we can validate our code with those predefined rules set of sonar cube and it will give a violation report to us.
- 1a) SonarQube is an open source platform for continuous inspection of code quality
- 1b) It is java based application





- 2) As per above diagram sonarcube is running on server. We have sonarqube client that on which we will make zip of the code that we have to make i.e. .js, .py etc. Then this zip file will go to server then sonar qube will scan the code. And will provide a validated report
- 3) We should have ip of server computer to send and receive report
- 4) Now our client should run inside pipeline i.e. inside the agent (vm) on which pipeline is running i.e. code uploading part from client to server will be done by pipeline.

<u>AGENDA – CREATE VM ON WHICH SONAR CUBE SERVER WILL RUN USING</u> <u>DOCKER</u>

- 1) Sonar cube default port 9000
- 2) Create vm and install docker on it.
- 3) SEARCH sonarqube docker image

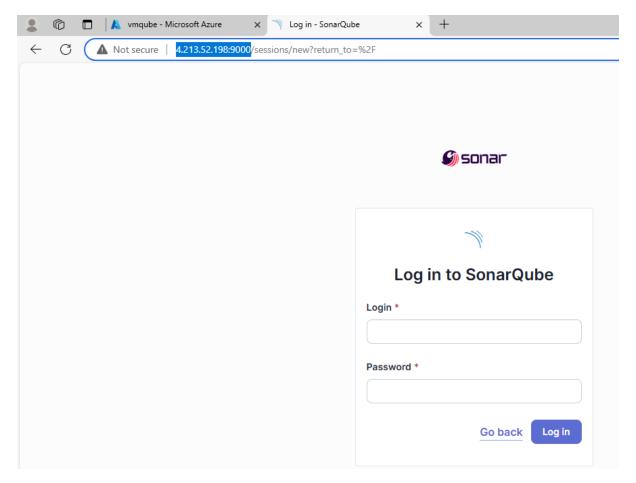
https://hub.docker.com/_/sonarqube

4) Run below command from docker hub

docker run --name sonarqube-custom -p 9000:9000 sonarqube:10.6-community

docker run --name sonarqube-custom -p 9000:9000 sonarqube:10.6-community

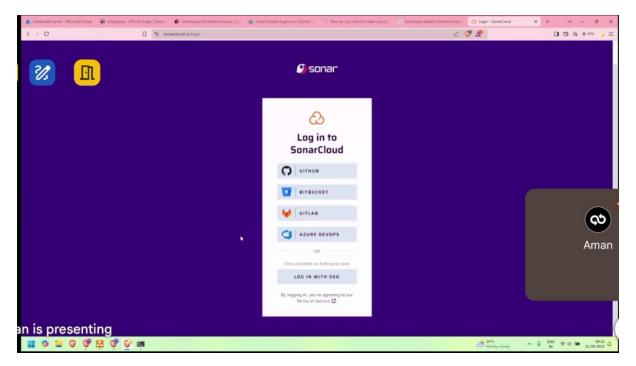
- 5) Open port 9000 in network settings of vm
- 6) Run in browser http://4.213.52.198:9000/



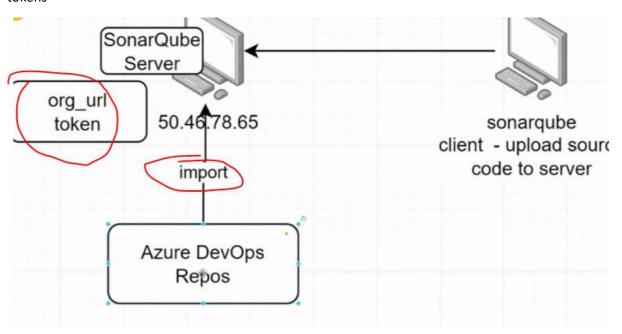
7) SEARCH – Default username and password of sonarcube is admin and admin

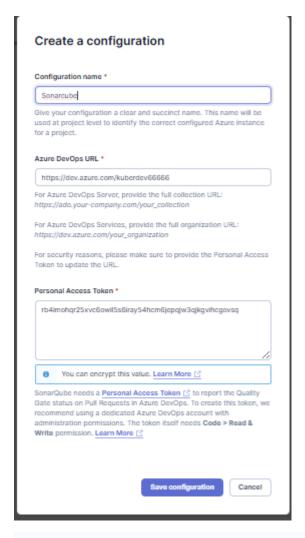
When installing SonarQube, a default user with Administer System permission is created automatically: Login: admin. Password: admin.

8) SEARCH - Sonar cloud



9) Now to create connectivity with sonar qube, we will give organization url and personal access tokens



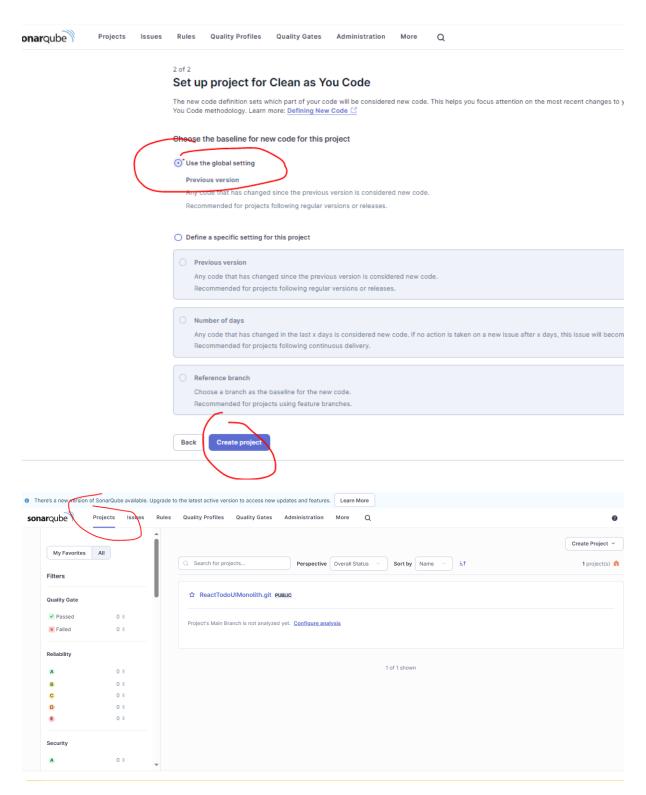


sonarQube Projects Issues Rules Quality Profiles Quality Gates Administration More Q

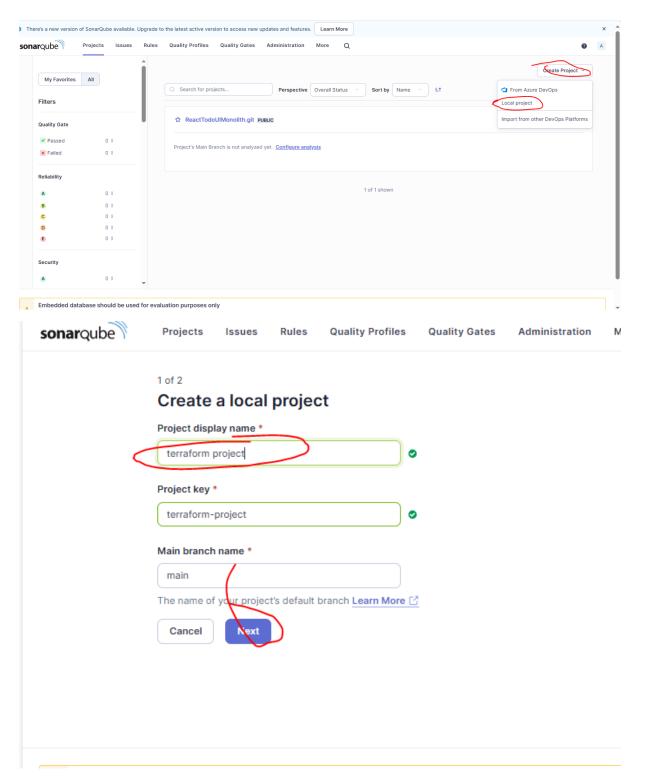
Azure project onboarding

Search for projects and repositories

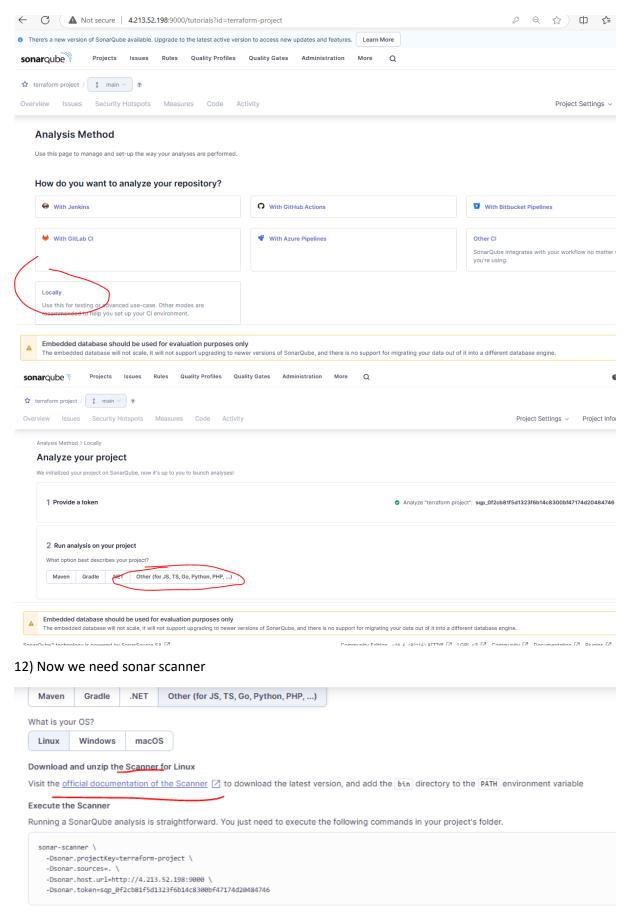
Import projects from one of your Azure projects



10) Create local project

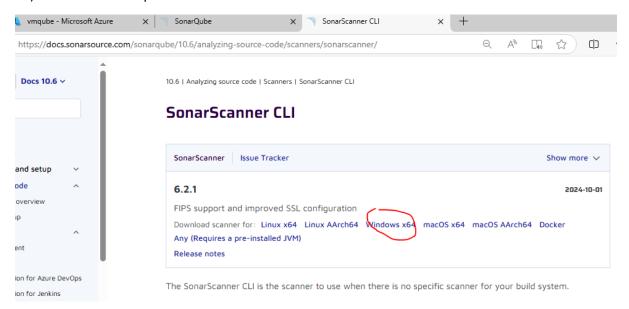


11) Then create project

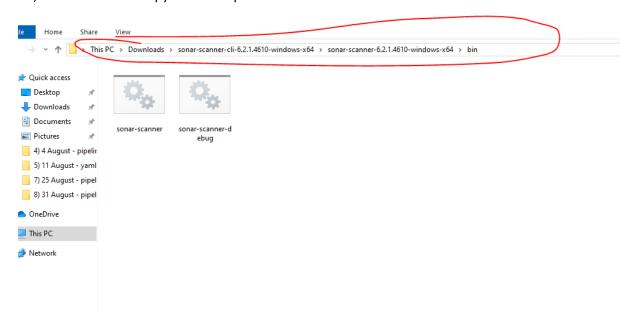


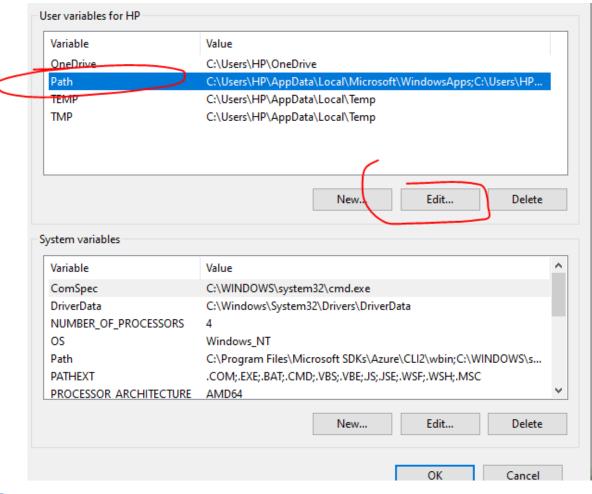
Please visit the official documentation of the Scanner 🖸 for more details.

13) Download sonar qube

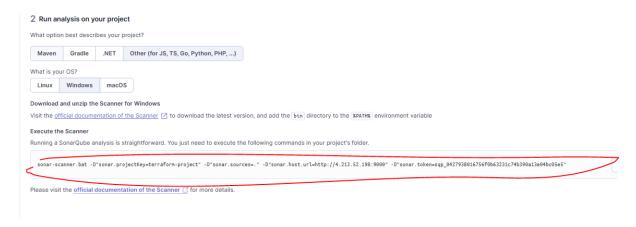


14) Extract files and Copy bin folder path and add into environment variable folder





```
### Windows PowerShell
###Indows PowerShell
###Indo
```

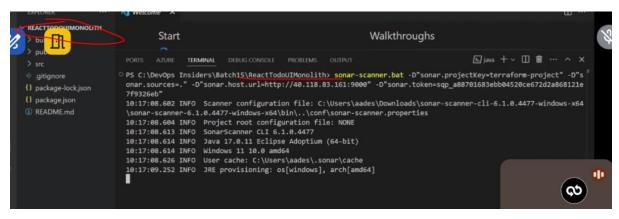


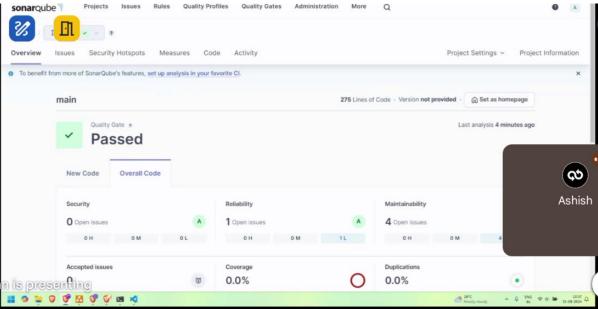
sonar-scanner.bat -D"sonar.projectKey=terraform-project" -D"sonar.sources=." -D"sonar.host.url=http://4.213.52.198:9000" -D"sonar.token=sqp_0427938016756f0b63231c74b390a13e04bc05e5"

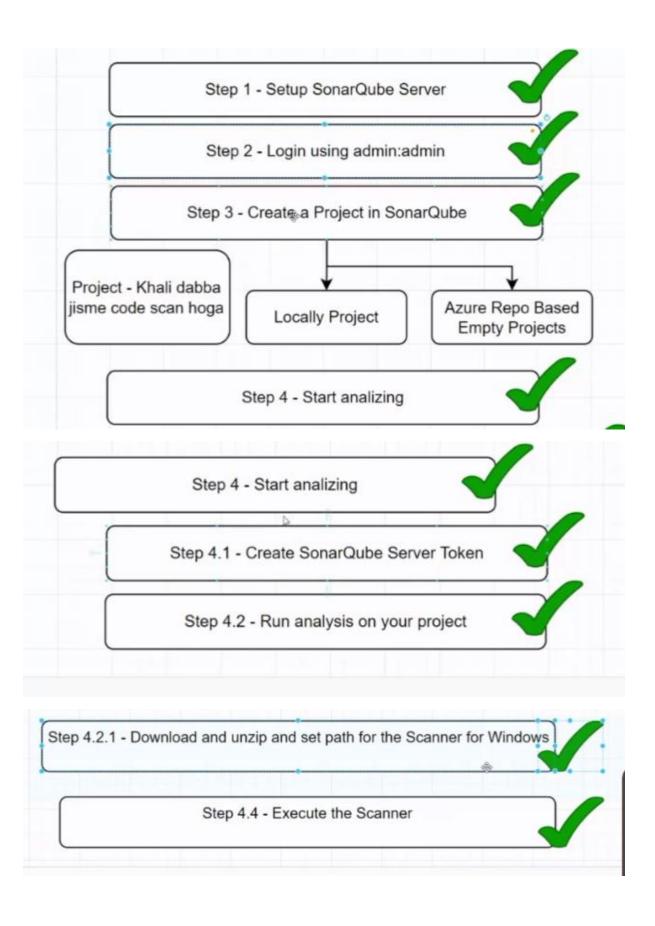
On sonarcube server page

15) Now run this command in reactuimonolithic folder in vs code which will provide the report

The work of scanner is actually to upload the code and work of server is to generate the report.





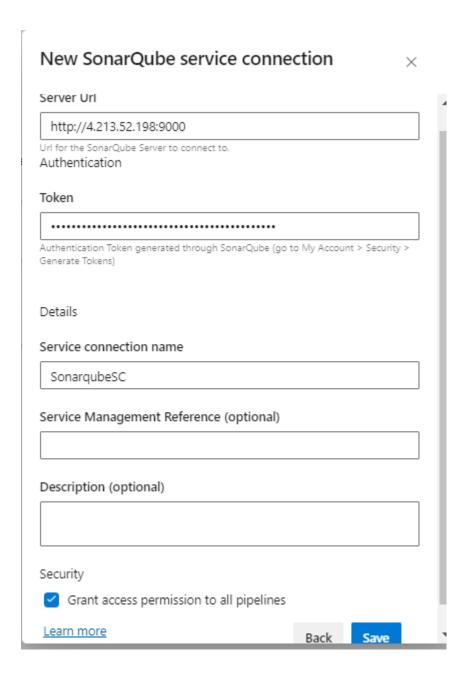


```
sonar-scanner.bat -D"sonar.projectKey=test" -
D"sonar.sources=." -
D"sonar.host.url=http://40.118.83.161:9000" -
D"sonar.token=sqp_78a3d0b8a09b67f1109b350a008ea42b07f57091"

Step 4.2 - Check the Report on SonarQube Server
```

<u>AGENDA – SONARQUBE IN PIPELINE</u>

- 1) Now making another project and using in pipeline
- 2) Go to market place and install sonarqube
- 3) Make service connection of sonarqube



4) Now follow sonarqube doc to make tasks in pipeline

5) **SEARCH – PREPARE ANALYSIS CONFIGURATION or SONAR**

```
Settings

Settings

Settings

Settings

Settings

Settings

SonarQubePrepare@6

SonarQube: 'SonarqubeSC'

ScannerMode: 'CLI'

Settings

Settings
```

6) SEARCH - PREPARE ANALYSIS CONFIGURATION or SONAR

```
Settings

Description:

JAVA_HOME_17_X64'

Description:

Settings

Description:

Description:

Settings

Description:

Description:

Settings

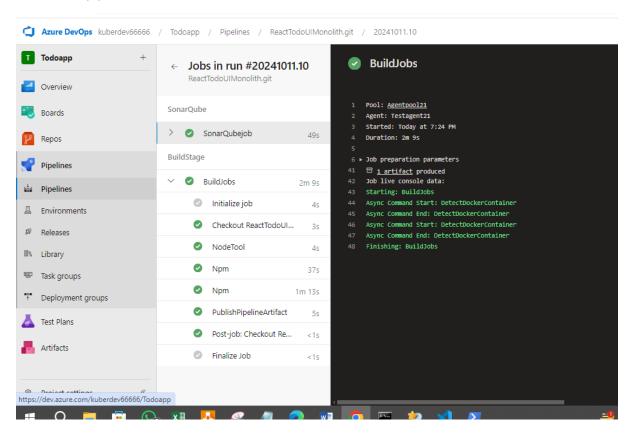
Description:

Settings

Description:

Descripti
```

- 7) Before running pipeline the version of sonar qube should match the version of java that we have to install in agent machine or vm i.e. java 17 version
- 8) Now run pipeline



9) Now sonar qube will give its report

