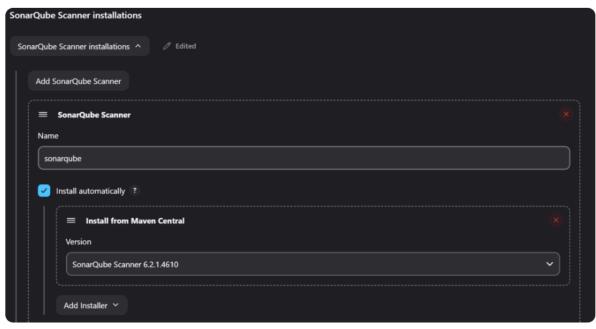
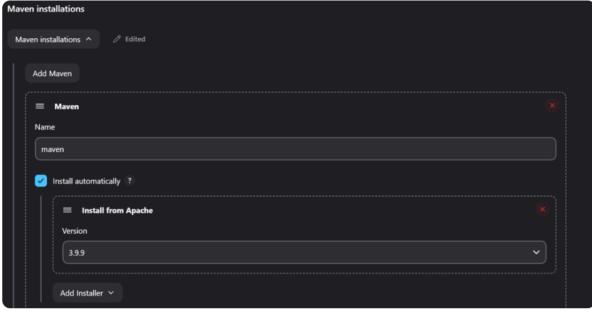
## Integrating SonarCube with Jenkins

- 1. Make an ec2 instance and install Jenkins
- 2. Make an ec2 instance and install sonarcube
- 3. Download sonarcube plugins in Jenkins
  - Maven Integration plugin 3.24
  - b. OWASP Dependency-Check Plugin 5.5.1
  - Sonar Quality Gates Plugin 328.vf4369b\_da\_d3c2
  - SonarQube Scanner for Jenkins 2.17.2
- 4. Integrate SonarQube with Jenkins Pipeline
  - a. Create a token in SonarQube by logging into SonarQube. Select the Profile and choose MyAccount
  - b. Click on Security
  - c. Give the name of the Token and click on generate
  - d. Copy the token
- 5. Add SonarQube in Jenkins
  - a. Go to Manage Jenkins > Tools
  - b. Add the SonarQube Scanner installation details:



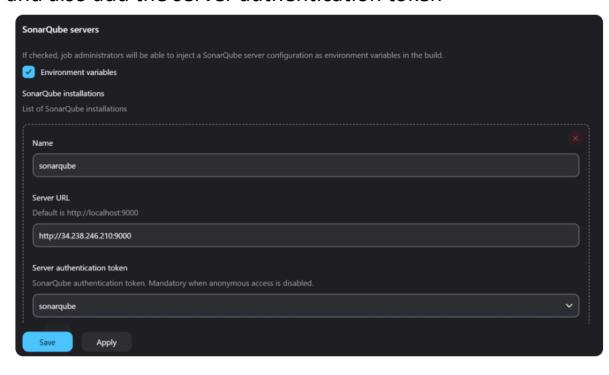
d. Add the Maven installation details:



- f. Click on apply and save
- g. Create a credential to connect Jenkins and SonarQube server
- h. Go to manage jenkins > Credentials > System >Global credentials (unrestricted) > Add Credentials



- j. Secret == token generated in sonar cube
- k. Credentials ID will be used in the Jenkins Pipeline code
- 6. Establish the Sonar Qube server Connections
  - a. Go to Manage Jenkins > System
  - b. Select the check-box of Injecting Environment variables, add the details of the SonarQube Server and also add the server authentication token



C.

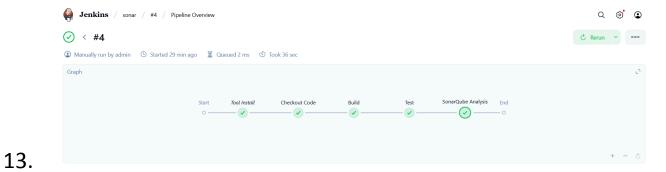
```
d. Server Url == Your Sonarcube serverurl:9000
```

- e. Click on apply and save
- 7. Go to Jenkins home page
- 8. Click on new item
- 9. Select pipeline and click on ok
- 10. Go to pipeline
- 11. Enter the below script:

```
stage('Checkout Code') {
       steps {
         git
'https://github.com/Tejas-kandregula/addressbook-
cicd-project' // Use your Git repository URL
    }
    stage('Build') {
       steps {pipeline {
  agent any
  tools {
    maven 'maven'
  }
  stages {
         sh 'mvn compile'
    }
```

stage('Test') {

```
steps {
               sh 'mvn test'
             }
           }
           stage('SonarQube Analysis') {
             environment {
               SONAR_HOST_URL =
      'http://3.95.138.160:9000' // Replace with your
      SonarQube URL
               SONAR_AUTH_TOKEN =
      credentials('sonarcube') // Store your token in
      Jenkins credentials
             steps {
               sh 'mvn sonar:sonar
      -Dsonar.projectKey=sample project
      -Dsonar.host.url=$SONAR_HOST_URL
      -Dsonar.login=$SONAR_AUTH_TOKEN'
             }
           }
         }
12. Click on save and apply
```



14. Once the analysis is completed, the SonarQube Project analysis report looks like below.

