



# A. P. SHAH INSTITUTE OF TECHNOLOGY

## **Department of Information Technology**

(NBA Accredited)

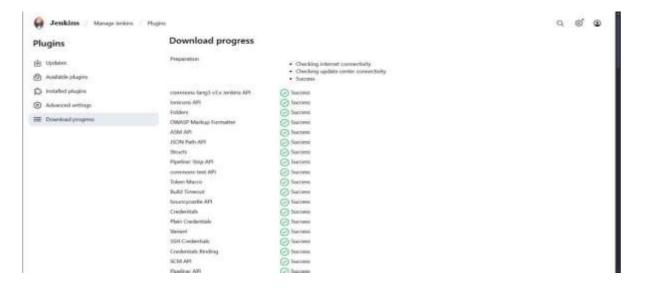
Semester: V Academic Year: 2025-26 Class / Branch: TE IT B

Subject: Advanced Devops Lab (ADL) NameofInstructor:ProManjushaKashilkar NameofStudent:Tanmay Padule StudentID:23104156

#### **EXPERIMENTNO.8**

**Aim:**To create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, codes mells, and security vulnerabilities on a sample Web/Java / Pythonapplication

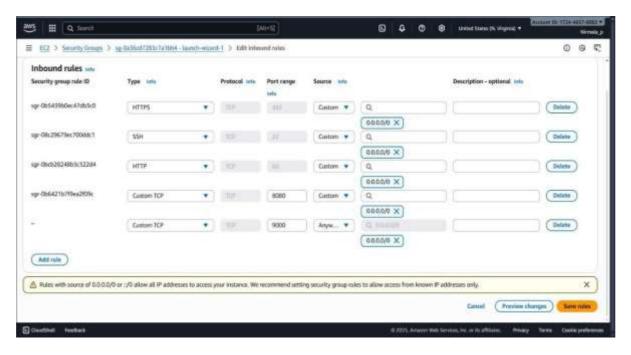
**Step1:**GotoJenkinsDashboard->manageJenkins ->AvailablePlugins ->InstallPlugin



**Step2:**Gotojenkinsdashboard->managejenkins->systemconfiguration->tools-> Sonarqube scanner -> save



Step3:Editinboundrules->addport9000

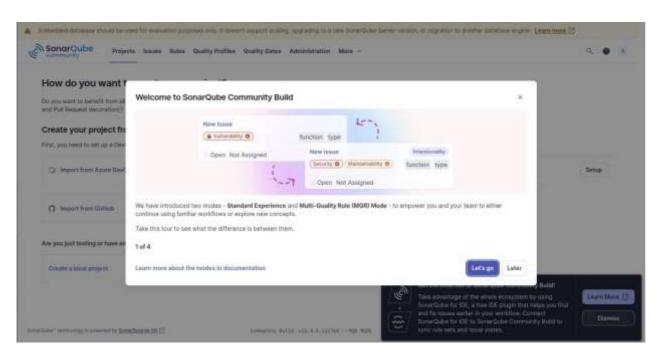


**Step4:Go**tobrowser -> <a href="http://localhost:9000"><u>http://localhost:9000</u></a>

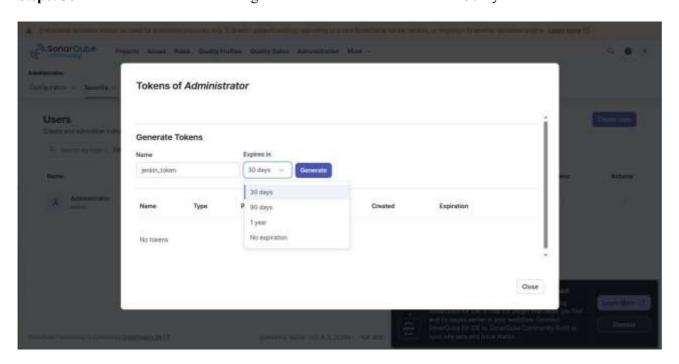
- f typeusernameandpaswordas'admin'
- Setnewpassword

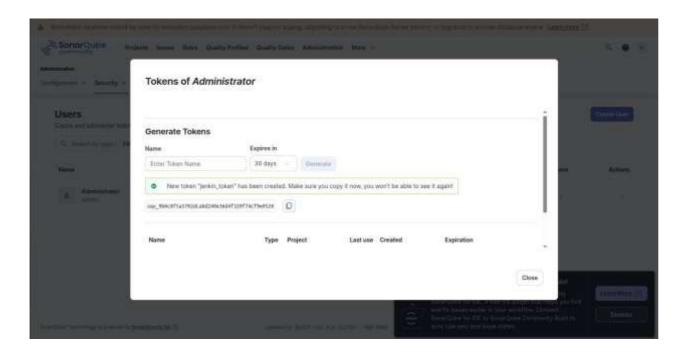
Update your password
A This annual district our can the self-out parameter.
Enter a new password De Password
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 ${\bf Step 5:} The {\bf dashboard of Sonar qube will look something like this.}$ 



### Step 6: Go to the administration taband then generate a token which will be valid until 30 days.

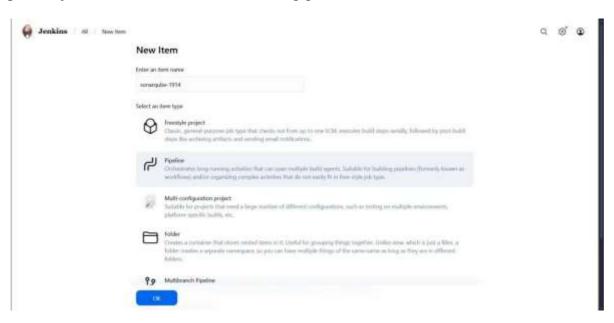




# **Step7:Change**systemconfigurationinjenkins Add server url ->'http://localhost://9000'



Step8:GotojenkinsDashboard->newitem->selectpipeline



#### **Step9:**Addthescriptinthepipeline.



Step10:BuildtheProjectandchecktheconsoleoutput.



**Conclusion:In**thisexperiment,IunderstoodhowSASThelpstofindsecurityissuesinthesource code before running the program. By connecting Jenkins with SonarQube, we can automatically check the code in the pipeline and fix problems early. This makes the code safer, better in quality, and reduces risks during development.