Sonarqube

SonarQube is an open-source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs and code smells on 29 programming languages.

- To install sonarqube minimum requirements 2cpu and 2gb ram
- Install postgres and create a databse for sonarqube in sonarqube server
- Install java
- Install sonarqube

Access sonarqube (sonar-server-public_ip:9000) on the browser

Username : admin

Password : admin

To access jenkins to sonarqube need to generate global token in sonar server

-->goto administation-->goto security-->generate global tokens

sqa_f812af33aa4e1a830c9167c197abe0ceb87134b5   ----- sonar token

Take copy of that token paste in jenkins credentials page

-->goto jenkins-->goto manage jenkins-->credentials-->clieck on global-->add credentials-->sekect secret text-->scope(global)-->paste sonar key-->provide Id name (sonar-key) this name will be use in pipeline code-->provide description name-->click on add


```
stage("Sonarqube Analysis"){
      steps{
        script{
          withSonarQubeEnv(credentialsId:'sonar-key'){
          sh "mvn sonar:sonar"
          }
```
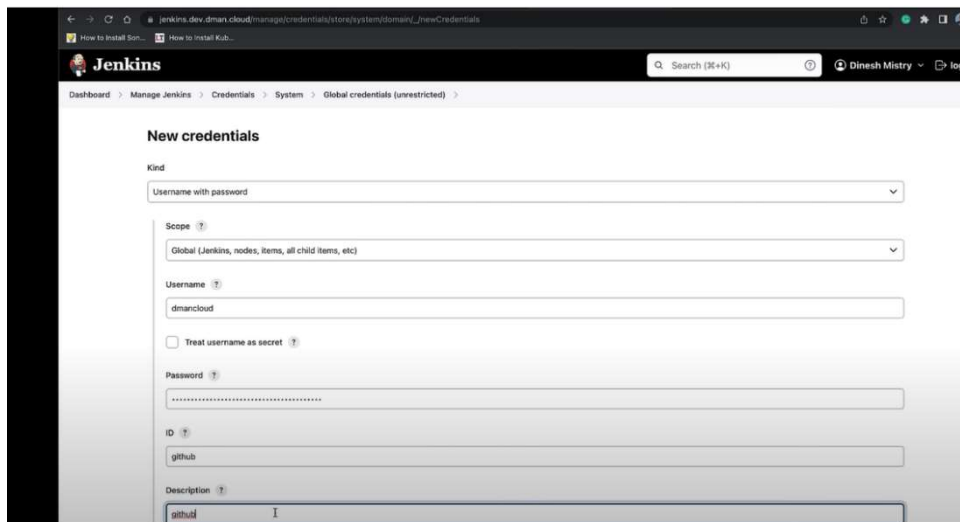
}

        }

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Setup and create a code in at the level of git and it will directly sync to jenkins

Setup

Step1: goto jenkins webpage goto global tool credentials

-->goto jenkins-->goto manage jenkins-->credentials-->system-->global credentials-->kind(username and password)-->scope(global)-->username(thej950)-->password(github token(**********))-->id(github)description(github)

-->now goto jenkins-->create a project(project name)-->

Sonarqube webhooks setup it is for send meassage to jenkins to approve

To generate sonarqube

-->goto sonarqube -->goto administration-->goto configurartion-->under configuration webhooks select -->create webhook-->name(jenkins machine name)-->url(jenkins-public-ip/sonarqube-webhook/-->click on create

Installation of SonarQube:

Refer Link: https://gist.github.com/dmancloud/0abf6ad0cb16e1bce2e907f457c8fce9