

Grithub

↓  
Source code.

→ Jenkins (CI/CD tools)

↓  
Docker (container app.)

↓  
EC2 (hosts)

[we need java for jenkins]

DATE: ...../...../.....

①

EC2 → Instance → Stop/Delete previous instance  
create 3 instance (launch instance)

→ Go to PowerShell.

> cd downloads

> ssh -i ssh-key ec2-user IP address of instance  
↑  
Amazon (key)

[If access denied cmd is  
> chmod 400 filename (ssh-key)]

To update version.

> sudo yum update -y

To install java.

> sudo yum install java-17-amazon-corretto

> y → enter.

To check java version.

> java -version

~~LAPIOP MUSK~~

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DATE : ...../...../.....

- > `sudo wget -o /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo`
- > `sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins-5.10-2023.key`
- > `sudo yum install jenkins -y`
- > `sudo yum install git -y`
- > `sudo systemctl enable jenkins`

Go To aws.

- Instance → click → security → security rules → edit inbound rule → Add rule → Port range (8080) → 0.0.0.0/0 → same rules.

Go To cmd.

- > `sudo systemctl start jenkins`



Aishwaryapachar → us  
Aishwarya @ 2001 → pw  
Aishwarya p

Jenkins

(2)

aishwaryapachar2001@gmail.com  
DATE: ...../...../.....

→ Go to Browser.

> Paste IP add of jenkins → ----:8080

→ Copy admin pw.

Go to cmd.

> Sudo cat (paste admin pw) →

> Copy pw.

Go to browser.

> pasting admin pw.

> click on install plugins.

> create user.

→ Save → Start using jenkins.

> New item → enter item name →  
select freestyle project → OK.

> Source code management

Select Git → Enter repository URL →

give \*/main in (branch) → Save

admin - un } sonarqube.  
1234 - pw }

DATE : ...../...../.....

→ Go To Git Repository.

> Setting → Webhook → Add webhook.

→ Payload (Add url ~~top~~ IP add of  
jenkins - - - :8080/github-webhook  
(http://52.87.209.23):8080/github-  
webhook)

> Select let me select individual events.

> Select Pushes, Pull requests. →  
add webhook.

→ Go to Jenkins.

> Give same → Click Jenkins (which  
is bold).

> Click Autobuilder → Click Build Now.

> Click workspace [you will get ~~repo~~ file].



- copy project properties.
- go to project → Acc → security → generate token → fill form. → generate

→ go to jenkins.

login

- settings → plugins → available plugins.
- search sonarqube → install. &
- search ssh2easy → install.
- setting → tools → scroll down → select sonarqube scanner installation, → enter name → save.
- setting → system → scroll search for sonarqube server → add sonar → name (sonar server) → save.

→ go to sonar browser →  
→ copy IP add.

- go to jenkins.
- setting → system → scroll for sonarqube server paste IP add in server URL, select server authentication token
- click on Add → jenkins. → select kind
- select secret text → paste key &
- Save.

Next go to Autobuilder → Configuration → system.

→ Go to Build steps → Click on Execute Sonarqube Scanner, and paste the path (paste the first copied link. sonar.link = cloud) in Analysis property.

→ Click on Build Now

→ Go to Powershell.

> ls

> cd bin

> ls

> cd - - - (paste ~~linux-x86-64~~ ~~from above~~  
ls old)

> ls

> ./sonar.sh.

> ./sonar.sh console

you will get permission denied.

> sudo chown -R ec2-user:ec2-user /home/  
ec2-user/sonarqube-10.5.1.90531/

> rm -rf /home/ec2-user/sonarqube-10.5.1.90531/temp/\*

> ./sonar.sh console.

→ Go To AWS.

> copy sonarq IP add → paste in new  
browser tab with :9000

> login in sonarqube.

login - admin

pw - admin → login.

> update your pw.

old pw - admin

new pw - 1234

→ create local project

> give proj name.

> select global settings → create proj

> click with jenkins

select github. → scroll down.

Ⓐ create a jenkinsfile.  
select other



## Sonarq

- to Powershell (new terminal).
- > cd downloads.
- > ssh -i ssh.pem ec2-user@----- (paste sonarq IP add).
- > sudo yum update -y
- To ~~give~~ Identify instance we need to give host name.
- > sudo hostnamectl set-hostname sonarqube
- > /bin / bash.
- [you will get [ec2-user@sonarqube ~]\$
- \* [you can repeat same in jenkins].
- > sudo yum install java-17-amazon-corretto -y
- > java -version
- > sudo yum install wget unzip -y
- > sudo wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-10.5.1.90531.zip
- (culatrapp link).
- > ls
- > sudo unzip ---- (paste ls output code)
- > ls
- > cd ---- (paste above ls output which is in blue)
- Go To AWS.
- > instance → sonarq ID → security → security groups
- > edit inbound rule.
- > 9000, 0.0.0.0 → same