1. Create one jenkins job using the below code and create three stages.

stage1: Git clone to download the source code.

stage2: Sonarqube Integration to check the quality of code

stage3: Slack Integration to send the alerts to slack.

URL: <https://github.com/betawins/VProfile-1.git>

Launch one ec2

A screenshot of a computer

AI-generated content may be incorrect.

Install java and mysqld

sudo dnf install java-11-amazon-corretto -y

sudo curl -o /etc/yum.repos.d/corretto.repo <https://yum.corretto.aws/corretto.repo>

sudo dnf install java-11-amazon-corretto -y

java -version

mysqld

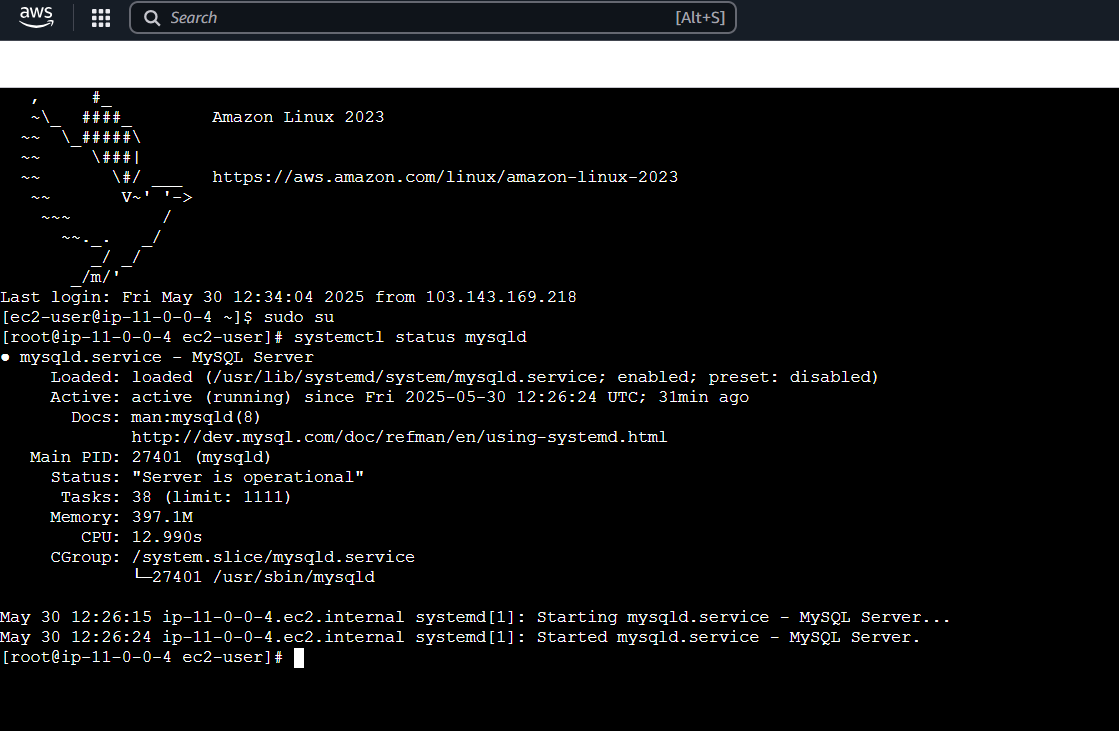
sudo dnf install --nogpgcheck -y mysql-community-server

rpm -qa | grep mysql

sudo systemctl start mysqld

sudo systemctl enable mysqld

sudo systemctl status mysqld



Configure the MySQL Root Password

You will see default MySQL root password

```sh

grep 'temporary' /var/log/mysqld.log

```

Login to mysql using the default password

```sh

mysql -u root -p

```

Now replace the default password with a new and strong password

```sh

ALTER USER 'root'@'localhost' IDENTIFIED BY 'Admin@123';

flush privileges;

```

Test Using new password

```sh

mysql -u root -p

cd /opt

# wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-6.6.zip

# unzip sonarqube-6.6.zip

# mv /opt/sonarqube-6.6 /opt/sonar

```

Login to mysql

```sh

mysql -u root -p

```

Create a new sonar database

```sh

CREATE DATABASE sonar CHARACTER SET utf8 COLLATE utf8\_general\_ci;

```

Create a local and a remote user

```sh

CREATE USER sonar@localhost IDENTIFIED BY 'Sonar@123';

CREATE USER sonar@'%' IDENTIFIED BY 'Sonar@123';

```

Grant database access permissions to users

```sh

GRANT ALL ON sonar.\* TO sonar@localhost;

GRANT ALL ON sonar.\* TO sonar@'%';

```

check users and databases

```sh

show databases;

SELECT User FROM mysql.user;

FLUSH PRIVILEGES;

QUIT

A screen shot of a computer code

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

- File Name: /opt/sonar/conf/sonar.properties

- sonar.jdbc.username=`sonar`

- sonar.jdbc.password=`Sonar@123`

A computer screen with white text

AI-generated content may be incorrect.

/etc/init.d/sonar file

```sh

Insert/modify below values

SONAR\_HOME=/opt/sonar

PLATFORM=linux-x86-64

WRAPPER\_CMD="${SONAR\_HOME}/bin/${PLATFORM}/wrapper"

WRAPPER\_CONF="${SONAR\_HOME}/conf/wrapper.conf"

PIDDIR="/var/run"

```

Start SonarQube server

```sh

# service sonar start

```

A screen shot of a computer

AI-generated content may be incorrect.

SonarQube application uses port 9000. access SonarQube from browser

```sh

http://<EC2\_PUBLIC\_IP>:9000/sonar

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

λCreate a job  
λattach the git repo https url  
λgo to build steps>>choose executive sonar   
scanner>>in that paste the bellow code in analysis   
properties  
λ  
> `Analysis properties`  
 sonar.projectKey=Sabear  
sonar.projectName=Sabear  
sonar.projectVersion=1.0  
sonar.sources=/var/lib/jenkins/workspace/$JOB\_NAME/  
src/  
sonar.binaries=target/classes/com/visualpathit/account/  
controlle/  
sonar.junit.reportsPath=target/surefire-reports  
sonar.jacoco.reportPath=target/jacoco.exec  
sonar.java.binaries=src/main/java/com/visualpathit/  
account/

A screenshot of a chat

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

in the sonar server>>go to administrator>>go to my   
account>>go security>>generate a token  
Go to the manage jenkins>>go to credentials>>create  
a credentials>>with the generated sonar token

A screenshot of a computer

AI-generated content may be incorrect.

in manage jenkins>>select systems>>in that go to   
SonarQube servers >>give the sonar server ip   
url>>attach the create credential before>>click  
on save

A screenshot of a computer

AI-generated content may be incorrect.

Go to manage jenkins>>select tools>>go to option   
SonarQube Scanner installations>>in that give   
the sonar scanner path that we have done in   
jenkins master last step of integration steps

>>save it

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

λfor notification install slack notification plugins

for creation slack webhooks go to  
https://api.slack.com/apps/A08UQP2Q0CV/incoming-  
webhooks  
λ create the channel and go to that channel and in the   
settings you will see the incomming webhooks   
>>generate the webhooks .  
A screenshot of a computer

AI-generated content may be incorrect.

go to the manage jenkins >>slect system>>in the   
bottom you will see slack >>give the credentials whatwe have created

A screenshot of a chat

AI-generated content may be incorrect.

A screenshot of a chat

AI-generated content may be incorrect.

1. 1) Create one jenkins job using the below code and create three stages.

stage1: Git clone to download the source code.

stage2: Sonarqube Integration to check the quality of code

stage3: Slack Integration to send the alerts to slack.

URL: <https://github.com/betawins/hiring-app.git>

🡺All steps mentioned in 1st task

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.