**Python Pipeline for Sonarqube**

Run this first in vm where u will run the job sudo apt install python3.12-venv

pipeline {

agent any

environment {

SCANNER\_HOME = tool 'sonar-scanner'

}

stages {

stage('Git Checkout') {

steps {

git branch: 'main',

credentialsId: 'git',

url: 'https://github.com/jaiswaladi246/Multi-TierPython-Postgres.git'

}

}

stage('Setup Virtual Environment') {

steps {

sh '''

# Remove any existing virtual environments

rm -rf venv

# Create a new virtual environment

python3 -m venv venv

chmod -R 755 venv

# Activate the virtual environment and install dependencies

source venv/bin/activate && \

pip install --upgrade pip && \

pip install -r requirements.txt

'''

}

}

stage('Test') {

steps {

sh '''

# Activate the virtual environment and run tests

source venv/bin/activate && \

pytest --cov=app --cov-report=xml && \

pytest --cov=app --cov-report=term-missing --disable-warnings

'''

}

}

stage('Sonar') {

steps {

withSonarQubeEnv('sonar-server') {

sh '''

$SCANNER\_HOME/bin/sonar-scanner \

-Dsonar.projectKey=Python-project \

-Dsonar.projectName=Python-project \

-Dsonar.exclusions=venv/\*\* \

-Dsonar.sources=. \

-Dsonar.python.coverage.reportPaths=coverage.xml

'''

}

}

}

}

}