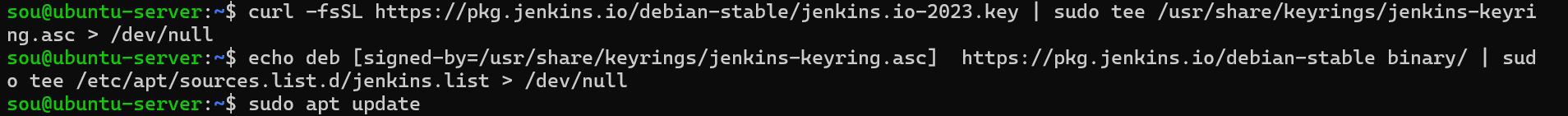
# Section 4: CI/CD Pipeline

* Installing Jenkins

Install JDK as a dependency



Install Jenkins





A screenshot of a computer screen

Description automatically generated

* Create a Basic Pipeline Configuration

Create jenkinsfile at the root directory of the project

Jenkinsfile content:

pipeline {

agent any

environment {

DOCKERHUB\_USERNAME = "${DOCKERHUB\_CREDENTIALS\_USR}"

DOCKERHUB\_PASSWORD = "${DOCKERHUB\_CREDENTIALS\_PSW}"

IMAGE\_NAME = souhaibsfaxi/laravel-app'

GIT\_REPO = 'https://github.com/souhaibsfaxi/laravel-app.git'

BRANCH = 'main'

}

stages {

stage('Checkout') {

steps {

git branch: "${BRANCH}", url: "${GIT\_REPO}"

}

}

stage('Install Dependencies') {

steps {

sh 'composer install’

}

}

stage('Run Tests') {

steps {

sh './path\_to\_unit\_tests\_file

}

}

stage('Build Docker Image') {

steps {

script {

sh """

docker build -t ${imageTag} .

"""

}

}

}

stage('DockerHub Login') {

steps {

sh 'echo "${DOCKERHUB\_PASSWORD}" | docker login -u "${DOCKERHUB\_USERNAME}" --password-stdin'

}

}

stage('Push Docker Image') {

steps {

script {

sh """

docker push ${IMAGE\_NAME}:v1

"""

}

}

}

stage('Deploy') {

steps {

// if using docker compose

sh """

docker-compose -f docker-compose.yml up

"""

}

}

}

}

}