**SourceCode**

create instance on AWS with ubuntu 20.01 OS

* Step 1:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Docker installation on Ubuntu OS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo apt-get update

> sudo apt-get install ca-certificates curl gnupg lsb-release

>curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

> echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list /dev/null

\*\*\*\*\* Install Docker Engine \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo apt-get update

> sudo apt-get install docker-ce docker-ce-cli containerd.io

\*\*\*\*\*\*\*\*\* let's check docker installed or not \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo docker -v or sudo docker --version

> sudo docker info

* Step 2: Install JDK

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>sudo apt-get update

>sudo apt install default-jdk -y

* Step 3: install maven

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>sudo apt install maven -y

* Step 4: install jenkins

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> curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null

> echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null

> sudo apt-get update

> sudo apt-get install jenkins

\*\*\*\*\*start jenkins service\*\*\*\*\*

> sudo service jenkins start

\*\*\*\*\*to check jenkins service\*\*\*\*\*

> sudo service jenkins status

> ctrl + c

>sudo cat /var/lib/jenkins/secrets/initialAdminPassword

(copy the initialAdminPassword)

open publicIp:8080

enter password and install suggested Plugins

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set up login

add username and password (remember) , add full name and email

continue and you will be redirected to jenkins Dashboard

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* Step 5: install Docker plugin in jenkins

manage jenkins> manage plugins> available >docker > install without retstart

* Step 6: configure Docker cloud

manageJenkins> manage nodes and clouds> check lefthand side (configure cloud)>

>click on add a new cloud> select docker > click on cloud details

>Enter Host URI: unix:///var/run/docker.sock

test connection if getting error of access denied

go to you instance console and execute below command

>sudo chmod 777 /var/run/docker.sock

>refresh jenkins

and test it again

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* step 7:

click on new Item

springbootapplicationpipeline> freestyle project>ok

click on configure and configure the jenkins