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JENKINS WITH DOCKER
STEP:1 CREATE AWS UBUNTU INSTANCE WITH PORT NO:8080
STEP:2 INSTALL DOCKER
STEP:3 INSTALL JDK
STEP:4 INSTALL MAVEN
STEP:5 INSTALL JENKINS
STEP:1 CREATE AWS UBUNTU INSTANCE WITH PORT NO:8080
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    Prepare AWS Instance(Ubuntu Server 22.04 LTS (HVM), SSD Volume Type)

2. Security: Add port no: 80 with Custom TCP Rule
3. Download .pem Key and connect using Moba x-term
open moba x-term
          //here d: is my drive
> cd phase-5 //phase-5 is a folder inside d: driver where .pen key is available
>goto> aws >instance>choose your instance>connect>ssh>copy example key
STEP: 2 DOCKER INSTALLATION ON UBUNTU OS
GOTO > GOOGLE> DOCKER INSTALLTION ON UBUNTU
_____
LINK:https://docs.docker.com/engine/install/ubuntu/
>sudo apt-get update
>sudo apt-get install ca-certificates curl gnupg lsb-release
>sudo mkdir -p /etc/apt/keyrings
>curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/etc/apt/keyrings/docker.gpg
>echo "deb [arch=$(dpkg --print-architecture)
signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu
$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list >
/dev/null
>sudo apt-get update
>sudo apt-get install docker-ce docker-ce-cli containerd.io docker-compose-
plugin
-----TO VERIFY THE INSTALLTION-----
> sudo docker -v
     output: Docker version 20.10.18, build b40c2f6
STEP:3 INSTALL JDK
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> sudo apt-get update

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> sudo apt install default-jdk -y
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STEP: 4 INSTALL MAVEN
> sudo apt-get update
> sudo apt install maven -y
STEP:5 INSTALL JENKINS
goto> google> how to download jenkins in ubuntu
link: https://www.jenkins.io/doc/book/installing/linux/
>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
1. TO START WITH JENKINS
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> sudo service jenkins start
> sudo service jenkins status
CONNECT: goto> AWS>EC2>Copy Public IP:8080 on browser hit enter
2. TO GENERATE SECRET PASSWORD
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> sudo cat /var/lib/jenkins/secrets/initialAdminPassword
---to deal with permission denied error----
> sudo chmod 777 /var/run/docker.sock
copy the secret password to jenkins and start installtion
3. FOR CONTINUOUS INTEGRATION (CI)
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1. click on install suggested plugins
2. provide your credentials
3. welcome to jenkins
4. manage plugin>maven integration> click on install without restart
5. goto>dashboard>create>new job>select freestyle project> give name>click ok
6. give description
7. sourcecode management
    GIT:
    URL: https://github.com/Nikunj-Java/docker_master.git
    BRANCHES TO BUILD: */master or */main
8. Build Trigger
    POLL SCM:
    H/2 * * * *
```

- 9. CLICK ON APPLY AND SAVE
- 10. BUILD THE PROJECT