Install jenkins (using docker)

Setting up jenkins

- Select ,install basic plugins
- Create admin user

Setup ec-2

- Create new ec2 instance with default settings
- Ssh into ec2 and install java (same version as jenkins container)
- If its 1.8.0:
 - #sudo amazon-linux-extras enable corretto8
 #sudo yum install java-1.8.0-amazon-corretto
 #sudo yum install java-1.8.0-amazon-corretto-devel
- Now allow ssh in your instance:
 - #vim /etc/ssh/sshd_config
 - -uncomment -port 22 and -ip 0.0.0.0
 - -save and exit

Setup jenkins slave

- On jenkins (localhost:8080) add slave:
 - -Dashboard -Nodes -new node



- Configure node
 - -Remote root directory : /home/ec2-user
 - -Labels : dev
 - -Launch method : launch agent via ssh
 - -host: ec-2 ip
 - -in credentials add new key

Aud Credentials	
Domain	
Global credentials (unrestricted)	
rind	
SSH Username with private key	
Scope	0
Global (Jenkins, nodes, items, all child items, etc)	
ID	
Description	•
Username	
ec2-user	
Private Key	
Enter directly Key	
	Enter New Secret Below
paste your ec2 key (*ˌpem) here	
Passphrase	

-Host Key Verification Strategy:manually trusted key verification strategy

Save

create new job

- On dashbord
 - -new item
 - -select freestyle project
 - -save

Configure a job

- In build section:
 - -select execute shell
- In command:

```
#sudo amazon-linux-extras install docker

#sudo service docker start

#sudo systemctl enable docker.service

#sudo systemctl start docker.service

#sudo docker pull postgres

#sudo docker run --name some-postgres -p 5432:5432 -e POSTGRES PASSWORD=mypassword
```

save

-d postgres

Launch Agent

- Dashbord -manage jenkins -manage nodes
- Select node we created
- Launch node
- Once its online and ready to accept jobs-

Launch job

- Dashboard -{select job(item) we created}
- Build now
- Once its complete ssh into ec2 and verify if docker container for postgres is created or not
- #docker exec -it -u postgres {container id} psql