```
Group 2's Documentation
Sai, Maisha, Xavier, Andrew, Bishajit, Mohammed
Process
Created a EC2 with a ubuntu ami on aws.
Ssh into public ec2
sudo apt-get update
Sudo apt-get upgrade
https://dev.to/kamalhossain/how-to-run-docker-containers-in-aws-ec2-3bh0
Install docker onto public ec2:
sudo apt-get install \
  apt-transport-https \
  ca-certificates \
  curl \
  gnupg-agent \
  software-properties-common
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
apt-cache madison docker-ce
sudo apt install docker.io
sudo apt install docker-compose
sudo usermod -a -G docker ubuntu (so you don't have to use sudo afterwards)
Exit and ssh back in
Create jenkinsfile and dockerfile on a github repo
Paste the code from the pdf into the jenkinsfile
pipeline {
agent { label "your label"}
environment{
DOCKERHUB CREDENTIALS = credentials ('your username-
dockerhub')
}
stages {
stage ('Build') {
steps {
sh '''docker build [docker-username]/[enter-new-name-here]-
demo .'''
}
}
stage ('Login') {
```

```
steps {
sh '''echo $DOCKERHUB CREDENTIALS PSW | docker login -u
$DOCKERHUB CREDENTIALS USR --password-stdin'''
} }
stage ('Push') {
steps {
sh '''docker push [docker-username]/[enter-new-name-here]-
demo:latest'''
}
}
}
docker pull jenkins/jenkins
Create ECS Cluster
Create ECR
Sudo apt install awscli
Aws configure
Push up the image to the repository
Copy the URI from the image that was pushed up
Create a Task definition
Paste in the URI and fill in the required/necessary fields (Port mapping to 8080)
Run the task in your cluster
Edit security group to allow port 8080
Get jenkins password and install suggested plugins
Install docker pipeline plugin and aws ec2 plugin
Create a Jenkinsfile and Dockerfile on your github
Paste the following into your dockerfile...
FROM openidk:11
COPY demo-0.0.1-SNAPSHOT.jar.
CMD java -jar demo-0.0.1-SNAPSHOT.jar
```

Drop the jar file into your repository

Generate token from dockerhub

Follow the steps provided by dockerhub when you generate your token..

Add the token as a password to your jenkins global credentials

Create a multi branch pipeline on your jenkins

Update your Jenkins plugins!!!

Build the pipeline and it should be successful

Useful Links

https://hub.docker.com/r/jenkins/jenkins

https://dev.to/kamalhossain/how-to-run-docker-containers-in-aws-ec2-3bh0



