Group 2’s Documentation

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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 .......'’’

}

}

stage ('Login') {

steps {

sh ‘’'echo $DOCKERHUB\_CREDENTIALS\_PSW | docker login -u

$DOCKERHUB\_CREDENTIALS\_USR --password-stdin'’’

}}

stage ('Push') {

steps {

sh ‘’'docker .......'’’

}

}

}

}

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 openjdk: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

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