CS 643 Cloud Computing Spring 2022 Vivek Baskar

Programming Assignment 2

GIT : https://github.com/vivekbaskar1405/QualityTrainingEngine.git
https://github.com/vivekbaskar1405/QualityPredictionEngine.git

Docker Hub: docker pull vivekbaskar92/cloudcomputing:QualityPredictionEngine

a) Steps to Application without Docker Container

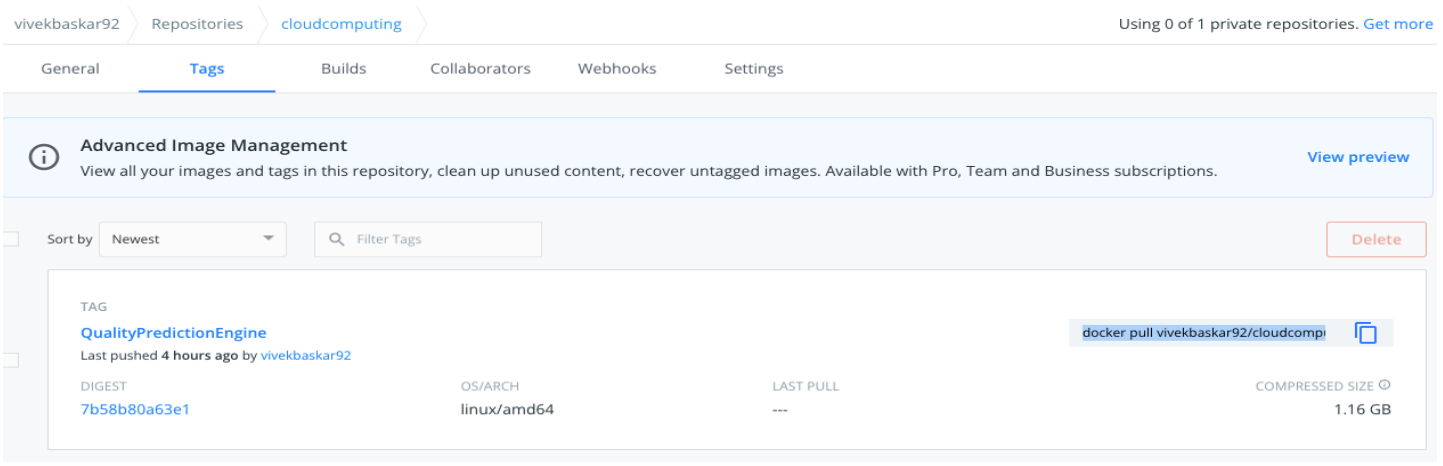
1) Launch Lab, This will launch all the EC2 instance as shown below :

spark-cluster-cloud-master	i-0482d7960fef7ca34	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54-198-197-61.co...	54.198.197.61
spark-cluster-cloud-slave	i-07fe07669860215ba	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-174-129-48-118.co...	174.129.48.118
spark-cluster-cloud-slave	i-0c7278a32fc3bdff6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54-160-201-73.co...	54.160.201.73
spark-cluster-cloud-slave	i-0b26efe1498aaf0ef	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54-159-90-56.com...	54.159.90.56
spark-cluster-cloud-slave	i-085566972a01341e1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-3-90-29-152.comp...	3.90.29.152
spark-ec2	i-0ffb44572c2bff6b4	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-18-212-233-85.co...	18.212.233.85

2) SSH into “spark-cluster-cloud-master”
3) Run.ksh is created to run the QualityTrainingEngine to create Model and then QualityPredictionEngine to validate the model.
4) Run “./run.ksh” to run the application which will Create Training.log and Prediction.log
5) Model will be created in /home/ec2-user/model

b) Steps to Run Prediction Application as Docker Container

1) SSH into EC2 instance named as “spark-ec2”
2) Run “sudo docker pull vivekbaskar92/cloudcomputing:QualityPredictionEngine “



3) Run “sudo docker images”
4) Run “sudo docker run ‘imageId’ “
5) This will run the docker container in spark-ec2 instance.