CS643 Cloud Programming Assignment 2

READme file:

Git Hub link:

https://github.com/sg2658/cloud_programming_assignment_2

DOCKER HUB link:

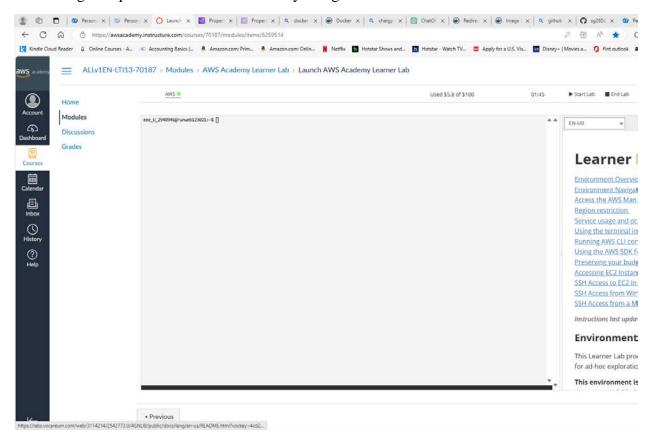
sg2658/wine_quality_prediction Tags | Docker Hub

Steps for the Execution:

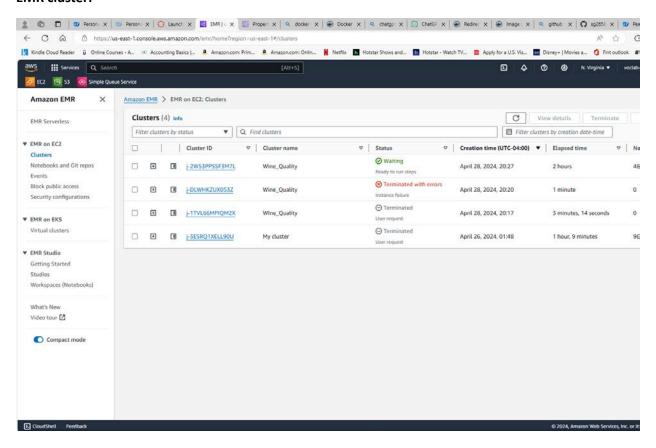
- 1.Create a Key-pair for the EMR Cluster
- 2.Create an S3 bucket

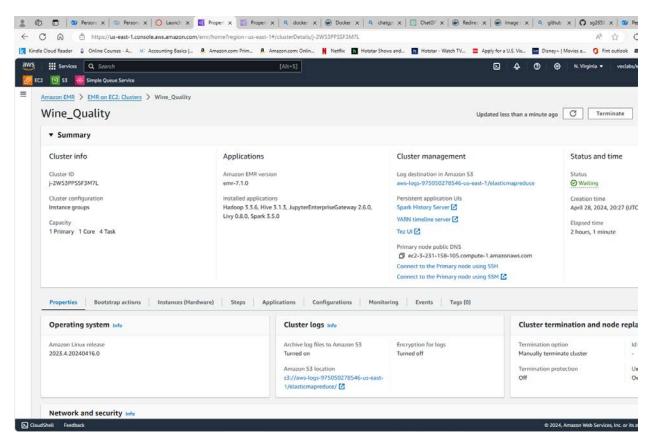
Created an S3 bucket in aws: emrbucketone

- 3. Then go to EMR console and create EMR cluster: EMRCluster
- 4. Creating the spark in the AWS instance by using EMR console



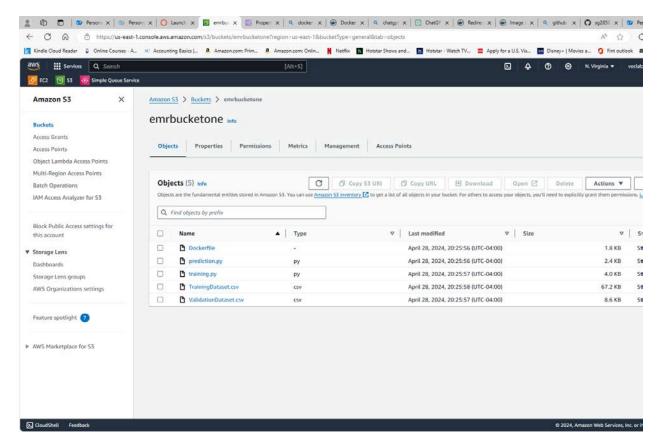
EMR cluster:



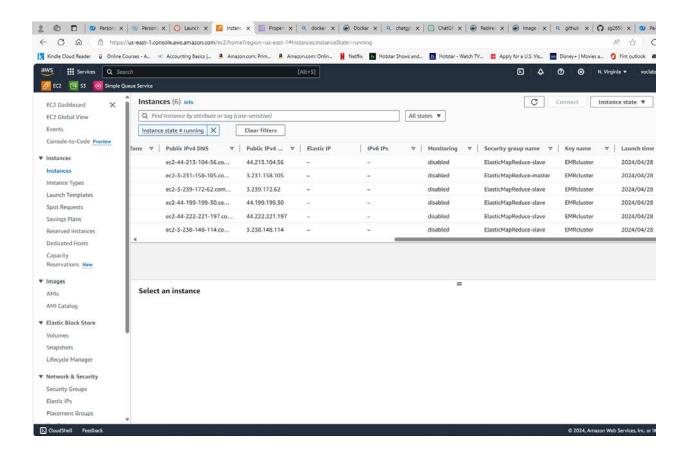


Bucket creation:

Bucket name: emrbucketone

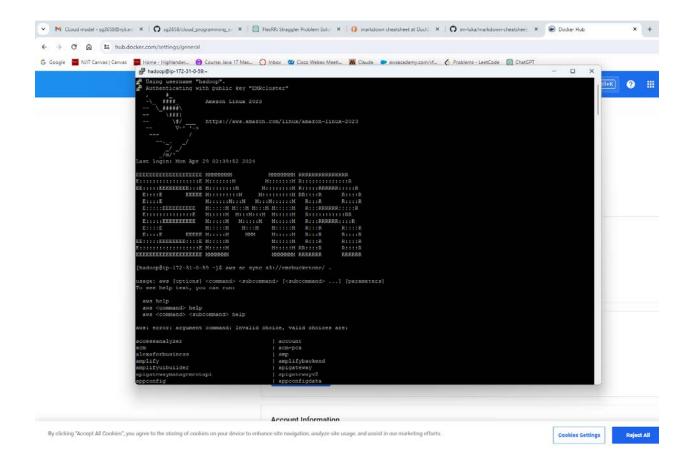


EC2 instance-master:



We are training an ML model on an EC2 instance in a spark cluster without Docker:

1. Now the cluster will accept the tasks to run the ML model



WITHOUT Docker:

Now we are running ML model using the Docker:

- 1.Create a docker account and sign up.
- 2. After the successful login, download and setup the docker in your local system
- 3.Install the docker
- 4. Login the docker in the power shell by the command

docker login

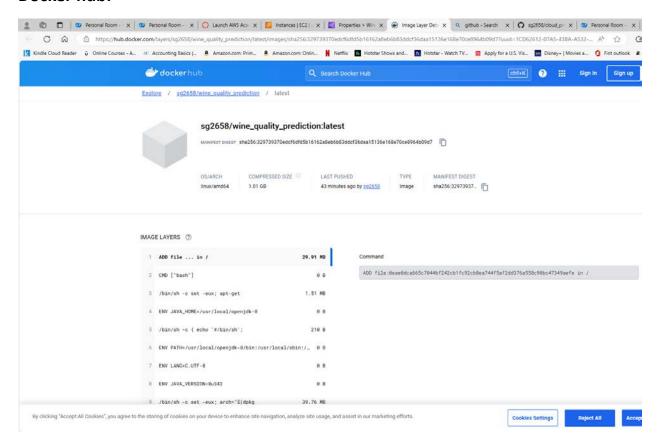
username:

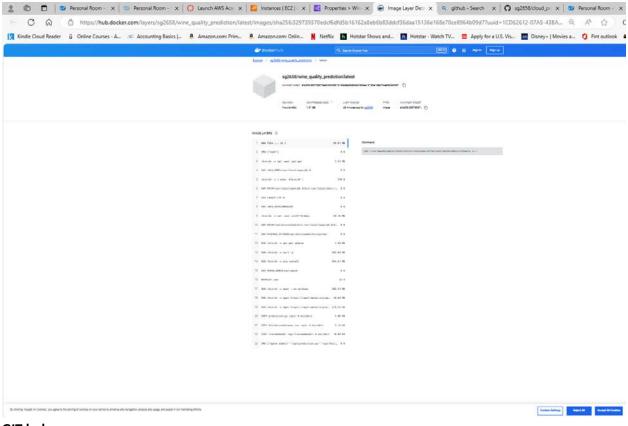
Pwd:

With DOCKER:

```
24/04/29 01:17:20 INFO Utils: Successfully started service 'SparkUI' on port 4040.
24/04/29 01:17:20 INFO Executor: Os info Linux, 6.1.04-99.169.amzn2023.x86_64, amd64
24/04/29 01:17:20 INFO Executor: Os info Linux, 6.1.04-99.169.amzn2023.x86_64, amd64
24/04/29 01:17:20 INFO Executor: Java version 18.0_342
24/04/29 01:17:20 INFO Executor: Starting executor with user classpath (userClassPathFirst = false): '
24/04/29 01:17:20 INFO Executor: Created or updated repl class loader org.apache.spark.util.MutableURLClassLoader82153aa7c for default.
24/04/29 01:17:20 INFO Executor: Created or updated repl class loader org.apache.spark.util.MutableURLClassLoader82153aa7c for default.
24/04/29 01:17:20 INFO Executor: Oreated or updated repl class loader org.apache.spark.util.MutableURLClassLoader82153aa7c for default.
24/04/29 01:17:20 INFO NettyBlockHransferService: Server created on 2605a4a95061;41057
24/04/29 01:17:20 INFO NettyBlockHransferService: Server created on 2605a4a95061;41057
24/04/29 01:17:20 INFO BlockHransger/Master: Registering BlockHranger/BlockHranger/Id(driver, 2605a4a95061, 41057, None)
24/04/29 01:17:20 INFO BlockHranger/Master: Registering BlockHranger/BlockHranger/Id(driver, 2605a4a95061, 41057, None)
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24/04/29 01:17:20 INFO BlockHranger/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Master/Ma
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Docker hub:





GIT hub:

