# DATA & ANALYTICS

## Homework #5

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Data 228 - Big Data Technologies and Applications
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This assignment is designed to walk you through the process of creating a sample Amazon EMR cluster using Quick Create options in the AWS Management Console. After you create the cluster, you submit a Hive script as a step to process sample data stored in Amazon Simple Storage Service (Amazon S3)

Follow the steps and submit screenshots / report of your progress.

https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-gs.html

Step 1: Set Up Prerequisites

Step 2: Launch The Cluster

> Step 3: Allow SSH Access

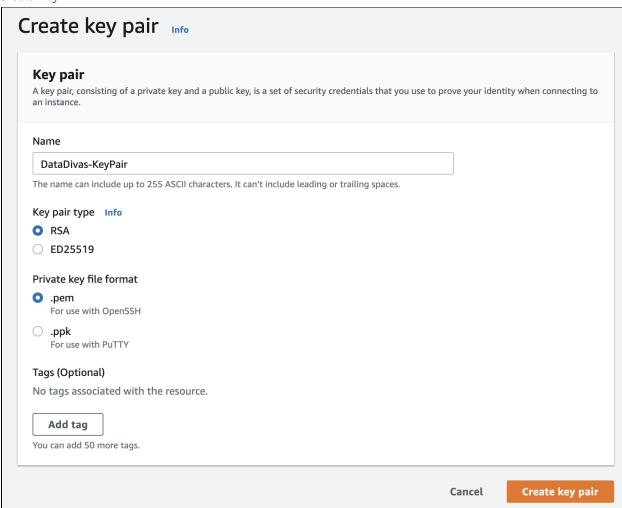
Step 4: Run a Hive Script to Process Data

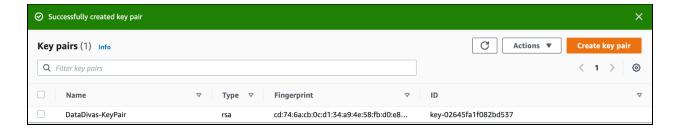
> Step 5: Clean Up Resources

## STEP 1: SET UP PREREQUISITES

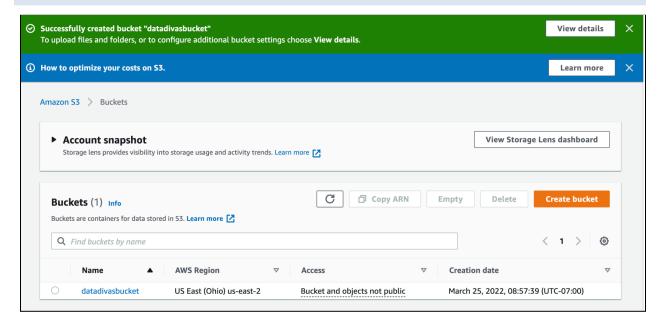
#### SETTING UP EMR

#### Create Key PA

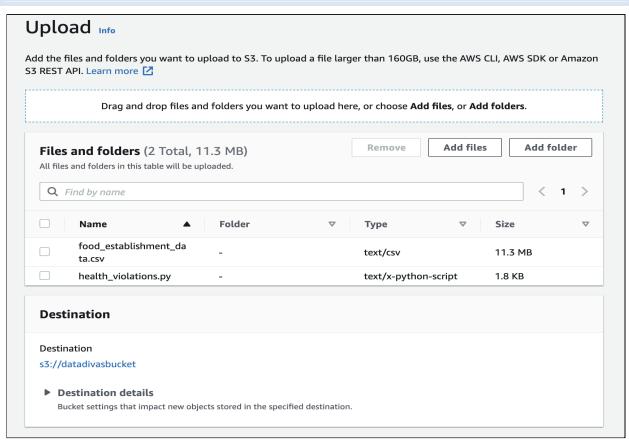


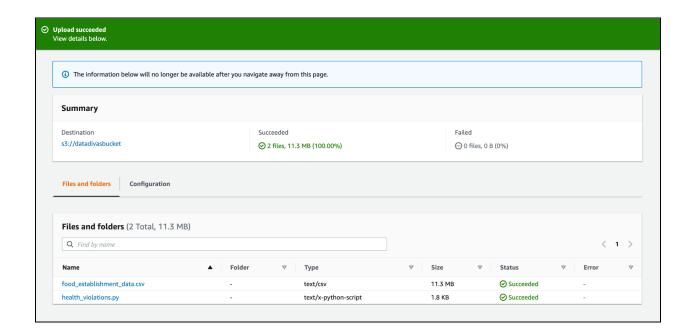


#### CREATING AN S3 BUCKET

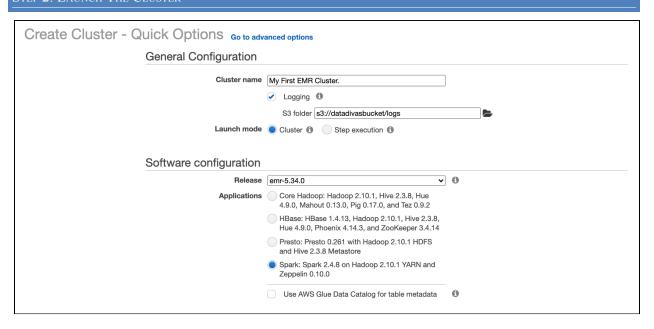


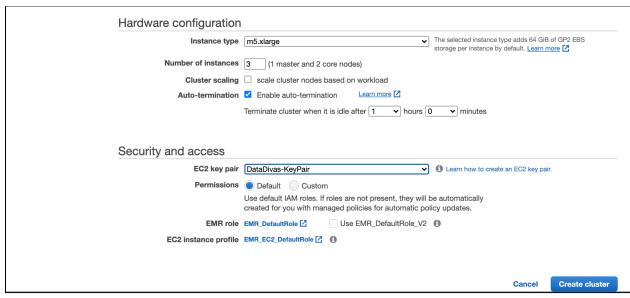
#### UPLOADING HEALTH\_VIOLATIONS.PY AND FOOD\_ESTABLISHMENT\_DATA.CSV TO \$3 BUCKET



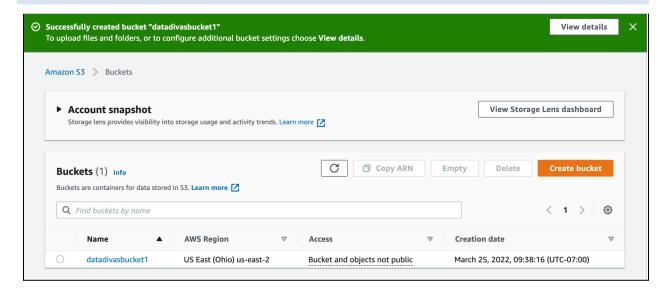


### STEP 2: LAUNCH THE CLUSTER



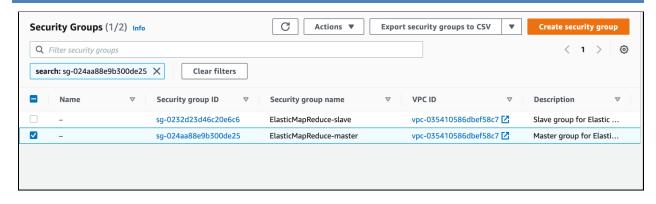


#### MY ACCOUNT ID





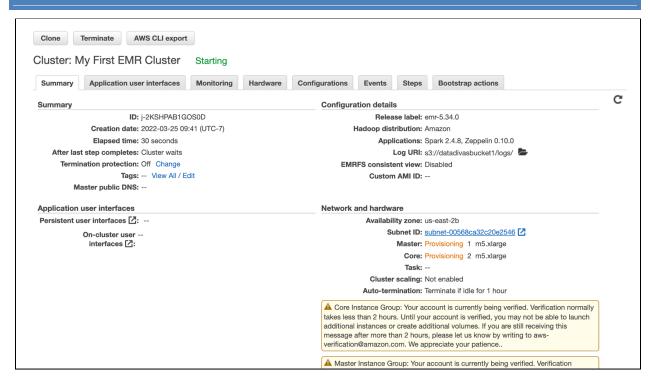
## STEP 3: ALLOW SSH ACCESS

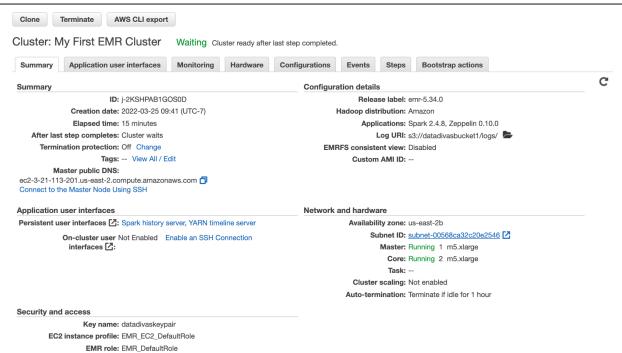


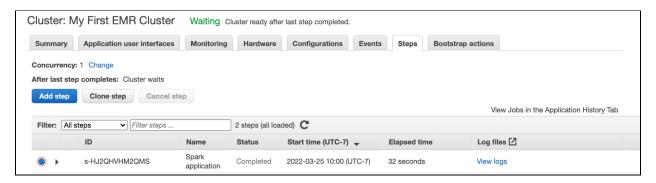


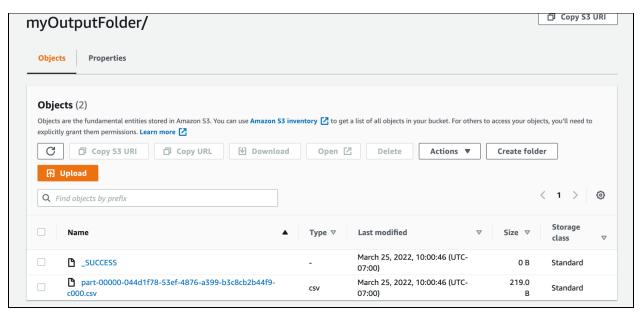
⊘ Inbound security group rules successfully modified on security group (sg-024aa88e9b300de25 | ElasticMapReduce-master)
 ▶ Details

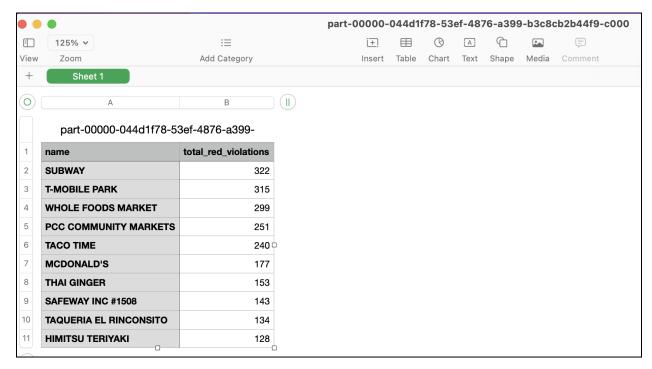
#### STEP 4: RUN A HIVE SCRIPT TO PROCESS DATA

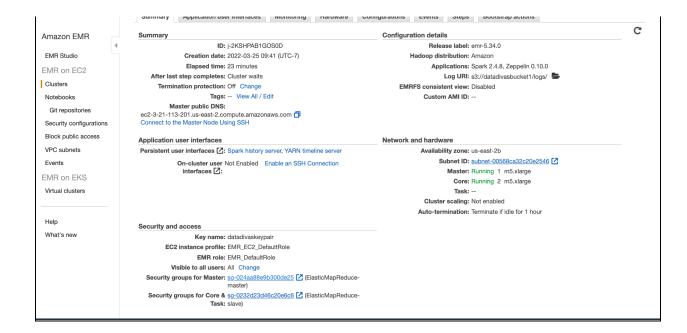






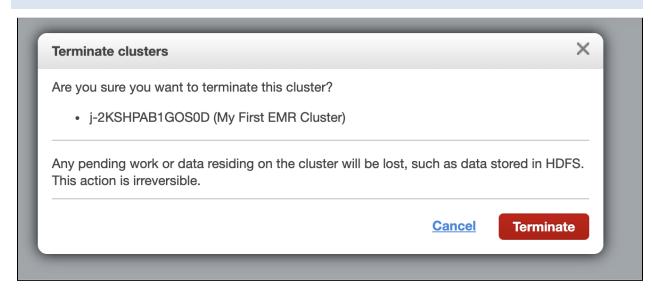




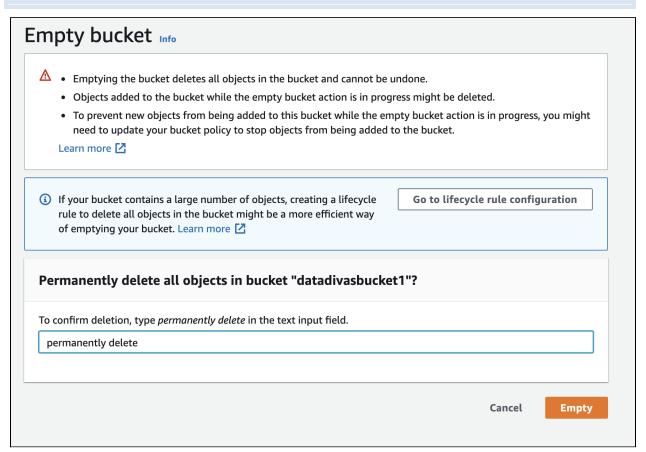


#### Step 5: Clean up your Amazon EMR resources

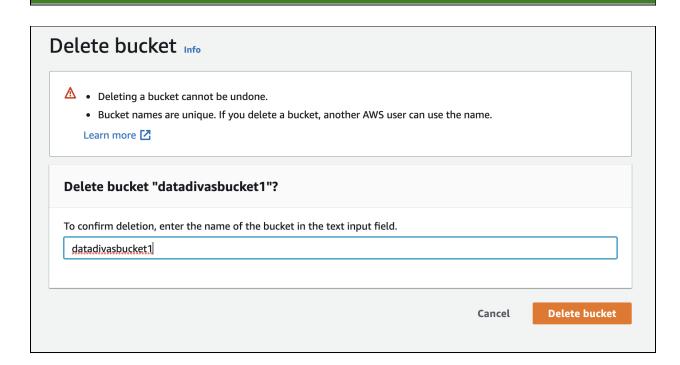
#### TERMINATING THE CLUSTER



#### Deleting S3 resources



Successfully emptied bucket "datadivasbucket1"
View details below. If you want to delete this bucket, use the <u>delete bucket configuration</u>.



#### References

• (2022). Retrieved 2 April 2022, from https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-gs.html.