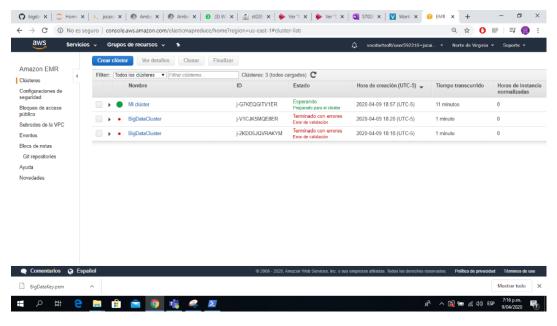
3/5/2020 OneNote

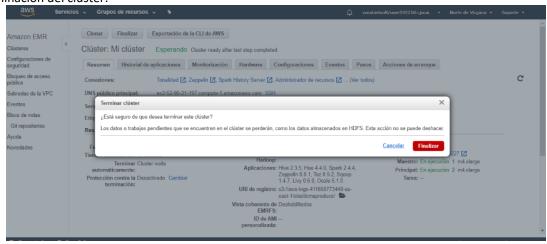
## 1. HDFS

## 1. Crear y gestionar Clusters Amazon EMR

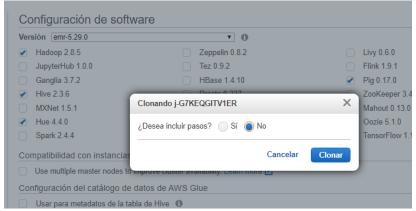
O Creación de cluster por primera vez de forma interactiva siguiendo el video y habilitando los puertos en bloqueo de acceso público:



o Terminación del clúster:



O Recreación del clúster:



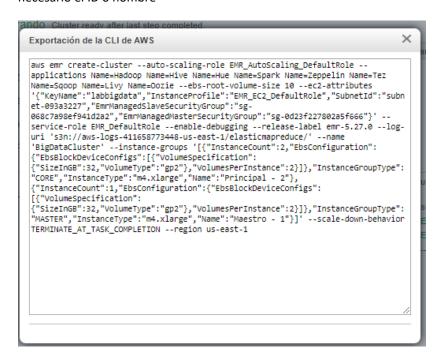
OneNote 3/5/2020



Por comando: Se actualizan las credenciales de aws cli



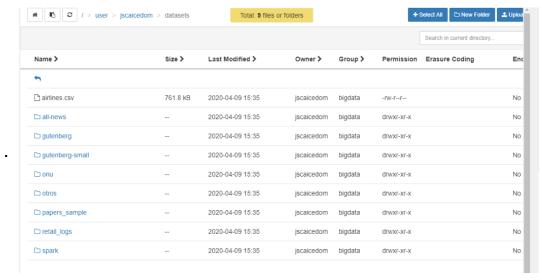
Comando para recreación de clúster por comando, y para la destrucción es necesario el ID o nombre



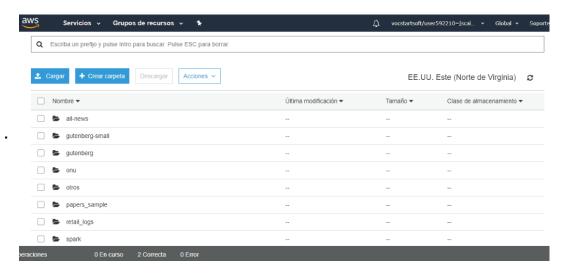
## 2. Gestión de archivos en S3 y HDFS

- O Copiar datasets desde Shell en la 192.168.10.116 hacia HDFS/DCA:
  - Ingresé al dca por medio de jupyter y creé la carpeta de datasets en hdfs (hdfs dfs mkdir /user/jscaicedom/datasets)
  - Descargué el github con los datos y los copié a hdfs (hdfs dfs -copyFromLocal \* hdfs:///user/jscaicedom/datasets/)

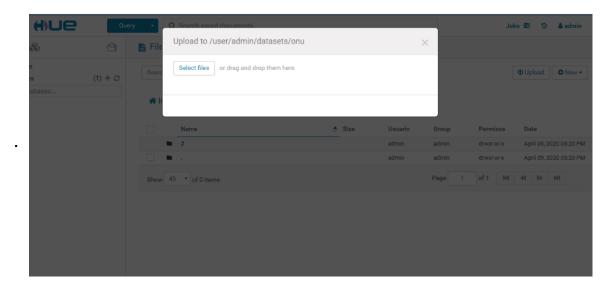




- o Copiar datasers desde Browser AWS hacia S3/Amazon:
  - Tal y como lo explica el video.



O Gestión de archivos vía HUE en amazon EMR:



o Acceder al cluster via ssh:

hadoop@ip-172-31-90-128: × arning: Permanently added 'ec2-52-90-21-197.compute-1.amazonaws.com,52.90.21.197' ast login: Fri Apr 10 00:06:27 2020

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```
Amazon Linux AMI
 nttps://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/
83 package(s) needed for security, out of 54 available
Run "sudo yum update" to apply all updates.
 EEEEEEEEEEEEEEEE MMMMMMM
[hadoop@ip-172-31-90-128 ~]$ hdfs lfs -ls /user
Error: Could not find or load main class lfs
[hadoop@ip-172-31-90-128 ~]$ hdfs dfs -ls /user
Found 9 items
drwxrwxrwx - hadoop hadoop 0 2020-(
drwxr-xr-x - mapred mapred 0 2020-(
drwxr-xr-x - hdfs hadoop 0 2020-(
drwxrwxrwx - hdfs hadoop 0 2020-(
drwxrwxrwx - hue hue 0 2020-(
drwxrwxrwx - livy livy 0 2020-(
                                                                                      0 2020-04-10 00:03 /user/hadoop
0 2020-04-10 00:03 /user/history
0 2020-04-10 00:03 /user/hive
0 2020-04-10 00:03 /user/hue
0 2020-04-10 00:03 /user/hue
```

- O Descargar repositorio de github en:
  - EMR: En el nodo master del cluster EMR (ssh)

```
Complete!
[hadoop@ip-172-31-94-233 ~]$ git clone https://github.com/st0263eafit/bigdata.git
clone lining into 'bigdata'...
remote: Enumerating objects: 35, done.
remote: Counting objects: 100% (35/35), done.
remote: Compressing objects: 100% (24/24), done.
remote: Total 133 (delta 12), reused 31 (delta 9), pack-reused 98
Receiving objects: 100% (133/133), 65.79 MiB | 41.33 MiB/s, done.
Resolving deltas: 100% (12/12), done.
[hadoop@ip-172-31-94-233 ~]$ is
oigdata
ofgdata
[hadoop@ip-172-31-94-233 ~]$ cd big
-bash: cd: big: No such file or directory
[hadoop@ip-172-31-94-233 ~]$ cd bigdata/
[hadoop@ip-172-31-94-233 bigdata]$ ls
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               README.md
  N-aws U1-hdfs 02-mapraduce datasets [hadoop@ip-172-31-94-233 bigdata]$ c [hadoop@ip-172-31-94-233 bigdata]$ ls -l otal 20 lrwxrwxr-x 2 hadoop hadoop 4096 Apr 10 lrwxrwxr-x 4 hadoop hadoop 4096 Apr 10 lrwxrwxr-x 2 hadoop hadoop 4096 Apr 10 lrwxrwxr-x 1 hadoop hadoop 4096 Apr 10 lrwxrwxr-x 10 lrwxrwxr-x 10 lrwxrwxr-x 10 hadoop 4096 Apr 10 lrwxrwxr-x 10 hadoop 4096 Apr 10 lrwxrwxr-x 10 lrwxrwxr-x 10 hadoop 4096 Apr 10 lrwxrwxr-x 10 hadoop 4096 Apr 10 lrwxrwxr-x 10 lrxxrwxr-x 10 lrxxrwxr-x 10 lrxxrwxr-x 10 lrxxrxxr-x 10 lrxxrxxr-x 10 lrxxrxxr-x 10 lrxxrxxr-x 10 lrxxrxxr-x 10 lrx
                                                                                                                                                2 hadoop hadoop 4096 Apr
4 hadoop hadoop 4096 Apr
2 hadoop hadoop 4096 Apr
10 hadoop hadoop 4096 Apr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 01:21
10 01:21
10 01:21
10 01:21
10 01:21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          README.md
```

DCA: En la 192.168.10.116 (Jupyterhub)

```
[jscaicedom@hdpjupyter bigdata]$ ls
 0-aws 01-hdfs 02-mapreduce datasets
[jscaicedom@hdpjupyter_bigdata]$ ls -1
drwxr-xr-x 2 jscaicedom domain users 4096 Apr
                                                          9 16:23 00-aws
drwxr-xr-x 4 jscaicedom domain users 77 Apr
drwxr-xr-x 2 jscaicedom domain users 247 Apr
drwxr-xr-x 10 jscaicedom domain users 159 Apr
                                                         9 16:23 01-hdfs
                                                          9 16:23 02-mapreduce
                                                          9 16:23 datasets
 rw-r--r- 1 jscaicedom domain users 986 Apr 9 16:23 README.md
[jscaicedom@hdpjupyter bigdata]$
```