Tutorial uso de mapreduce y hdfs

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Pregrado en Ingeniería de Sistemas

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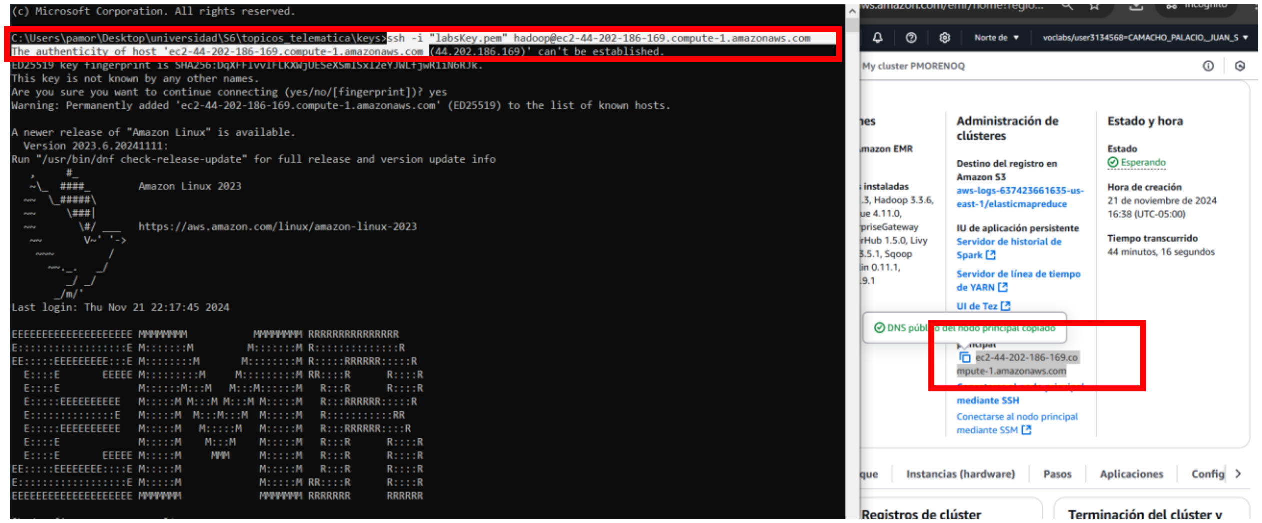
23 de noviembre de 2024

1. Acceder a nuestra instancia EC2 del nodo máster.

En consola

ssh -i “<ubicacion de la clave .pem>” hadoop@<DNS clúster principal>

Posteriormente nos debe mostrar la siguiente pantalla en nuestra consola



```
(c) Microsoft Corporation. All rights reserved.

C:\Users\pamor\Desktop\universidad\S6\topicos_telematica\keys>ssh -i "labsKey.pem" hadoop@ec2-44-202-186-169.compute-1.amazonaws.com
The authenticity of host 'ec2-44-202-186-169.compute-1.amazonaws.com (44.202.186.169)' can't be established.
ED25519 key fingerprint is SHA256:DqXFF1vv1FLKXWjUESeXSmISx12eYJWLfjwR1iN6RJk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-202-186-169.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

A newer release of "Amazon Linux" is available.
  Version 2023.6.20241111:
Run "/usr/bin/dnf check-release-update" for full release and version update info
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Thu Nov 21 22:17:45 2024

EEEEEEEEEEEEEEEEEEEE MMMMMMMM           MMMMMMMM RRRRRRRRRRRRRRR
E::::::::::::::::::E M:::::::M         M:::::::M R::::::::::::::R
EE:::::EEEEEEEEE:::E M::::::::M       M::::::::M R:::::RRRRRR:::::R
  E::::E       EEEEE M:::::::::M     M:::::::::M RR::::R      R::::R
  E::::E             M::::::M:::M   M:::M::::::M   R:::R      R::::R
  E:::::EEEEEEEEEE   M:::::M M:::M M:::M M:::::M   R:::RRRRRR:::::R
  E::::::::::::::E   M:::::M  M:::M:::M  M:::::M   R:::::::::::RR
  E:::::EEEEEEEEEE   M:::::M   M:::::M   M:::::M   R:::RRRRRR::::R
  E::::E             M:::::M    M:::M    M:::::M   R:::R      R::::R
  E::::E       EEEEE M:::::M     MMM     M:::::M   R:::R      R::::R
EE:::::EEEEEEEE::::E M:::::M             M:::::M   R:::R      R::::R
E::::::::::::::::::E M:::::M             M:::::M RR::::R      R::::R
EEEEEEEEEEEEEEEEEEEE MMMMMMM             MMMMMMM RRRRRRR      RRRRRR
```

My cluster PMORENOQ

Administración de clústeres

Destino del registro en Amazon S3
aws-logs-637423661635-us-east-1/elasticmapreduce

IU de aplicación persistente
Servidor de historial de Spark
Servidor de línea de tiempo de YARN
UI de Tez

DNS públi… del nodo principal copiado

…ncipal
ec2-44-202-186-169.compute-1.amazonaws.com

…mediante SSH
Conectarse al nodo principal mediante SSM

Estado y hora

Estado
Esperando

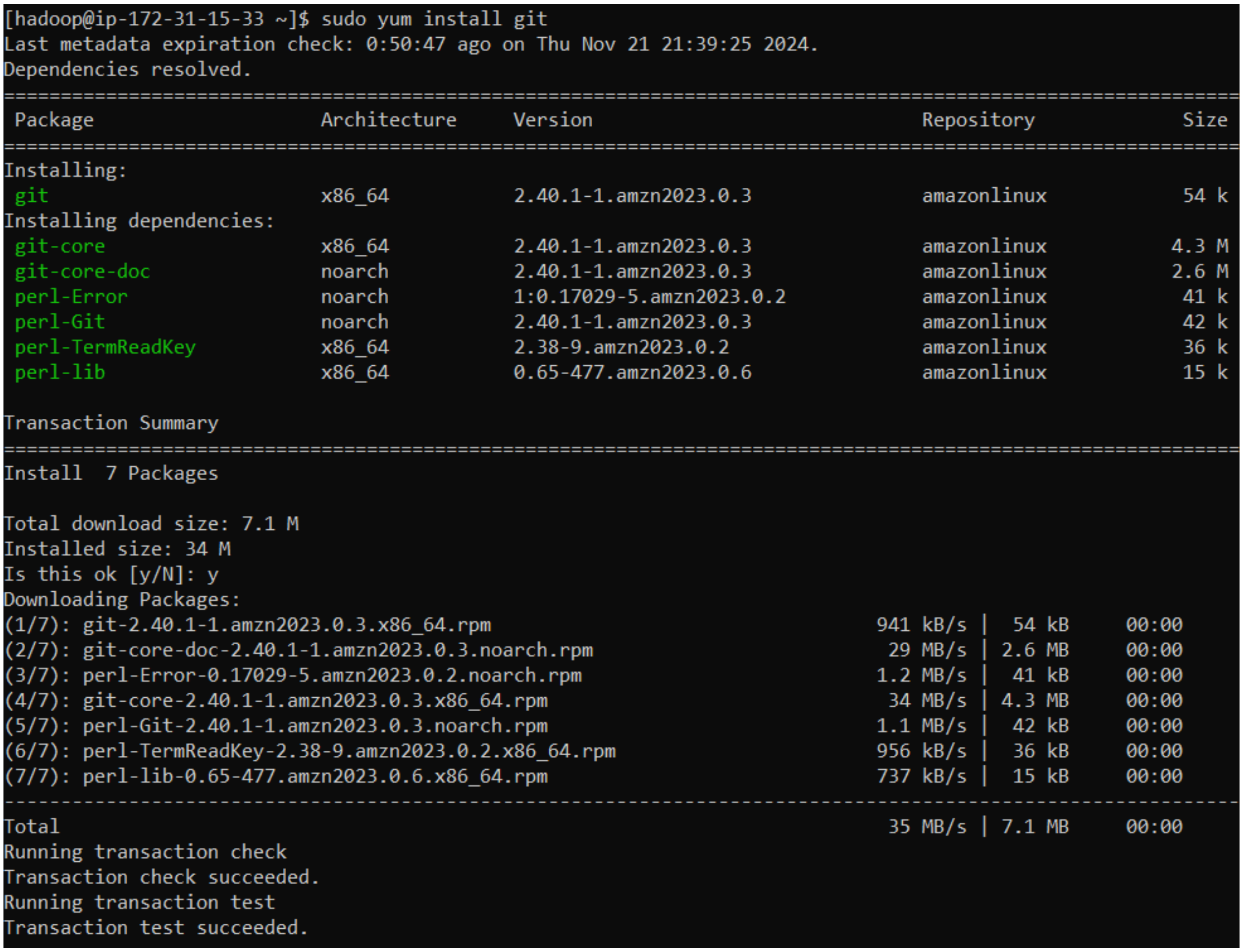
Hora de creación
21 de noviembre de 2024 16:38 (UTC-05:00)

Tiempo transcurrido
44 minutos, 16 segundos

…nes
…mazon EMR
…instaladas
…3, Hadoop 3.3.6, …ue 4.11.0, …priseGateway …rHub 1.5.0, Livy …3.5.1, Sqoop …in 0.11.1, …9.1

Luego de acceder a nuestra instancia master debemos descargar git

Damos “yes” cuando lo pida.



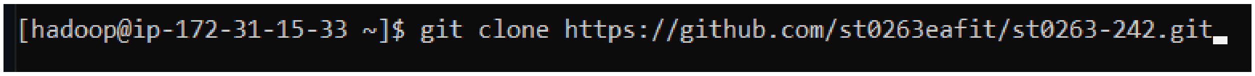
```
[hadoop@ip-172-31-15-33 ~]$ sudo yum install git
Last metadata expiration check: 0:50:47 ago on Thu Nov 21 21:39:25 2024.
Dependencies resolved.
================================================================================================================
 Package                    Architecture     Version                              Repository             Size
================================================================================================================
Installing:
 git                        x86_64           2.40.1-1.amzn2023.0.3                amazonlinux            54 k
Installing dependencies:
 git-core                   x86_64           2.40.1-1.amzn2023.0.3                amazonlinux           4.3 M
 git-core-doc               noarch           2.40.1-1.amzn2023.0.3                amazonlinux           2.6 M
 perl-Error                 noarch           1:0.17029-5.amzn2023.0.2             amazonlinux            41 k
 perl-Git                   noarch           2.40.1-1.amzn2023.0.3                amazonlinux            42 k
 perl-TermReadKey           x86_64           2.38-9.amzn2023.0.2                  amazonlinux            36 k
 perl-lib                   x86_64           0.65-477.amzn2023.0.6                amazonlinux            15 k

Transaction Summary
================================================================================================================
Install  7 Packages

Total download size: 7.1 M
Installed size: 34 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): git-2.40.1-1.amzn2023.0.3.x86_64.rpm                                     941 kB/s |  54 kB     00:00
(2/7): git-core-doc-2.40.1-1.amzn2023.0.3.noarch.rpm                             29 MB/s | 2.6 MB     00:00
(3/7): perl-Error-0.17029-5.amzn2023.0.2.noarch.rpm                             1.2 MB/s |  41 kB     00:00
(4/7): git-core-2.40.1-1.amzn2023.0.3.x86_64.rpm                                 34 MB/s | 4.3 MB     00:00
(5/7): perl-Git-2.40.1-1.amzn2023.0.3.noarch.rpm                                1.1 MB/s |  42 kB     00:00
(6/7): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm                          956 kB/s |  36 kB     00:00
(7/7): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm                                737 kB/s |  15 kB     00:00
----------------------------------------------------------------------------------------------------------------
Total                                                                            35 MB/s | 7.1 MB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
```

Clonamos el repositorio

Git clone https://github.com/st0263eafit/st0263-242



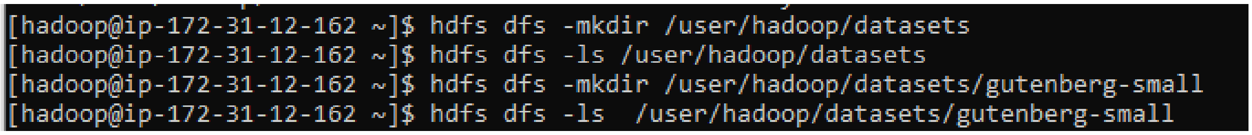
```
[hadoop@ip-172-31-15-33 ~]$ git clone https://github.com/st0263eafit/st0263-242.git
```

Utilizamos los siguientes comandos para crear directorios de hdfs

Hdfs dfs -mkdir <ruta>

Y el siguiente comando para verificar su creación

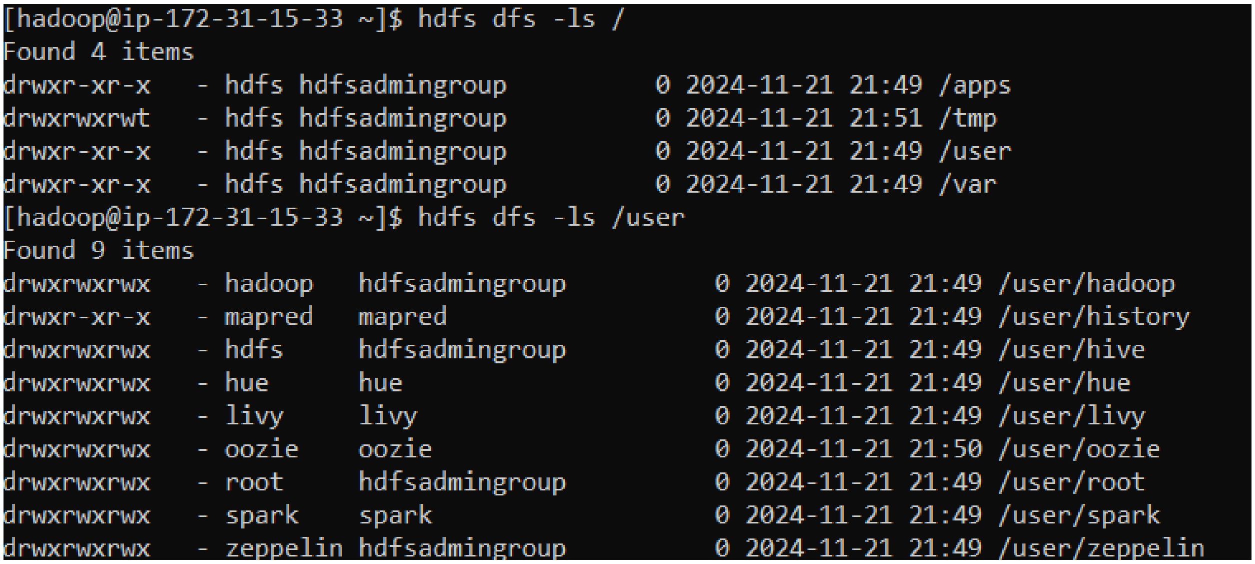
Hdfs dfs -ls <ruta>



```
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -mkdir /user/hadoop/datasets
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -ls /user/hadoop/datasets
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -mkdir /user/hadoop/datasets/gutenberg-small
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -ls  /user/hadoop/datasets/gutenberg-small
```

Movemos los archivos descargados a hdfs

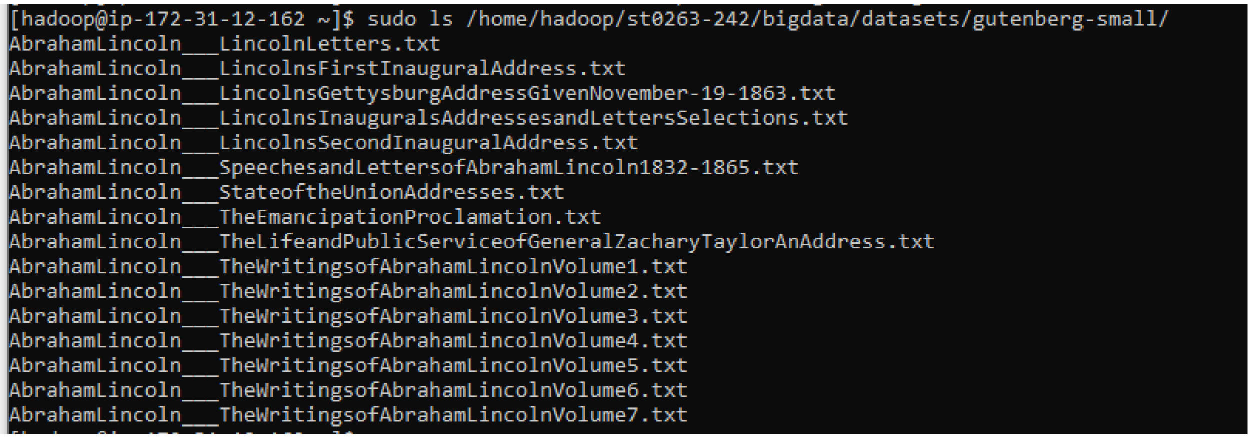
hdfs dfs -put /home/ec2-home/st0263-242/bigdata/datasets/gutenberg-small/*.txt /user/hadoop/datasets/gutenberg-small/



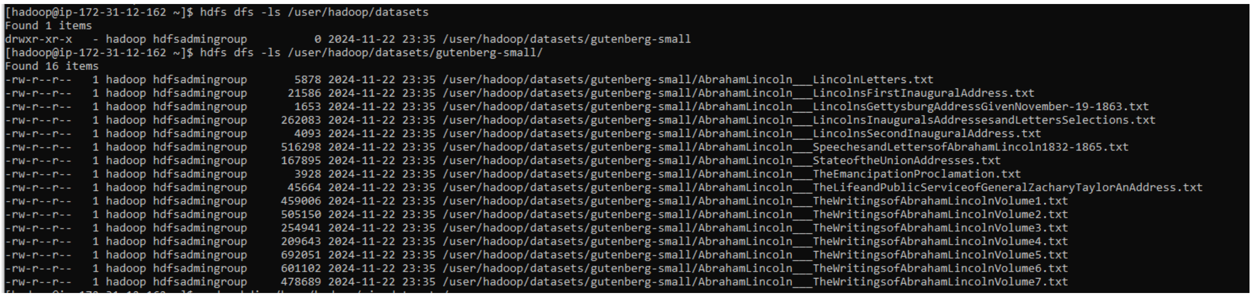
```
[hadoop@ip-172-31-15-33 ~]$ hdfs dfs -ls /
Found 4 items
drwxr-xr-x   - hdfs hdfsadmingroup          0 2024-11-21 21:49 /apps
drwxrwxrwt   - hdfs hdfsadmingroup          0 2024-11-21 21:51 /tmp
drwxr-xr-x   - hdfs hdfsadmingroup          0 2024-11-21 21:49 /user
drwxr-xr-x   - hdfs hdfsadmingroup          0 2024-11-21 21:49 /var
[hadoop@ip-172-31-15-33 ~]$ hdfs dfs -ls /user
Found 9 items
drwxrwxrwx   - hadoop   hdfsadmingroup          0 2024-11-21 21:49 /user/hadoop
drwxr-xr-x   - mapred   mapred                  0 2024-11-21 21:49 /user/history
drwxrwxrwx   - hdfs     hdfsadmingroup          0 2024-11-21 21:49 /user/hive
drwxrwxrwx   - hue      hue                     0 2024-11-21 21:49 /user/hue
drwxrwxrwx   - livy     livy                    0 2024-11-21 21:49 /user/livy
drwxrwxrwx   - oozie    oozie                   0 2024-11-21 21:50 /user/oozie
drwxrwxrwx   - root     hdfsadmingroup          0 2024-11-21 21:49 /user/root
drwxrwxrwx   - spark    spark                   0 2024-11-21 21:49 /user/spark
drwxrwxrwx   - zeppelin hdfsadmingroup          0 2024-11-21 21:49 /user/zeppelin
```

hdfs dfs -get /user/hadoop/datasets/gutenberg-small/* user/datasets/

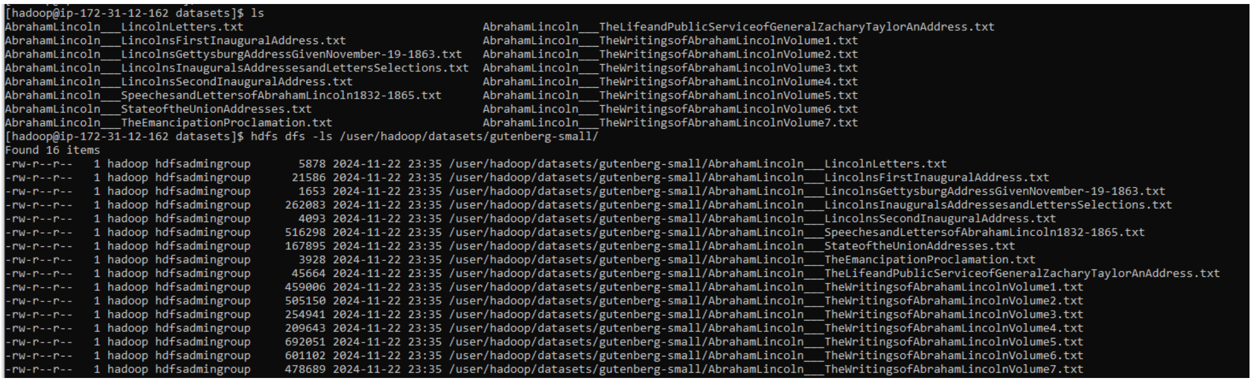
verificamos



```
[hadoop@ip-172-31-12-162 ~]$ sudo ls /home/hadoop/st0263-242/bigdata/datasets/gutenberg-small/
AbrahamLincoln___LincolnLetters.txt
AbrahamLincoln___LincolnsFirstInauguralAddress.txt
AbrahamLincoln___LincolnsGettysburgAddressGivenNovember-19-1863.txt
AbrahamLincoln___LincolnsInauguralsAddressesandLettersSelections.txt
AbrahamLincoln___LincolnsSecondInauguralAddress.txt
AbrahamLincoln___SpeechesandLettersofAbrahamLincoln1832-1865.txt
AbrahamLincoln___StateoftheUnionAddresses.txt
AbrahamLincoln___TheEmancipationProclamation.txt
AbrahamLincoln___TheLifeandPublicServiceofGeneralZacharyTaylorAnAddress.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume1.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume2.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume3.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume4.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume5.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume6.txt
AbrahamLincoln___TheWritingsofAbrahamLincolnVolume7.txt
```

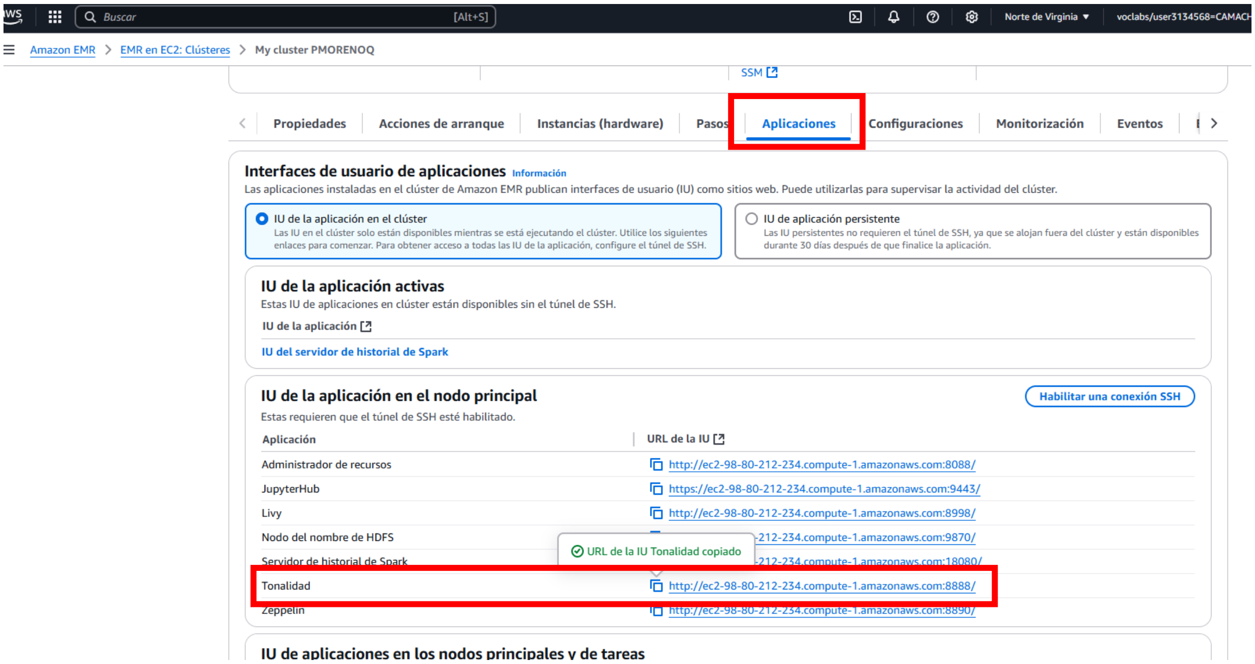


```
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -ls /user/hadoop/datasets
Found 1 items
drwxr-xr-x   - hadoop hdfsadmingroup          0 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small
[hadoop@ip-172-31-12-162 ~]$ hdfs dfs -ls /user/hadoop/datasets/gutenberg-small/
Found 16 items
-rw-r--r--   1 hadoop hdfsadmingroup       5878 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnLetters.txt
-rw-r--r--   1 hadoop hdfsadmingroup      21586 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsFirstInauguralAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup       1653 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsGettysburgAddressGivenNovember-19-1863.txt
-rw-r--r--   1 hadoop hdfsadmingroup     262083 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsInauguralsAddressesandLettersSelections.txt
-rw-r--r--   1 hadoop hdfsadmingroup       4093 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsSecondInauguralAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup     516298 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___SpeechesandLettersofAbrahamLincoln1832-1865.txt
-rw-r--r--   1 hadoop hdfsadmingroup     167895 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___StateoftheUnionAddresses.txt
-rw-r--r--   1 hadoop hdfsadmingroup       3928 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheEmancipationProclamation.txt
-rw-r--r--   1 hadoop hdfsadmingroup      45664 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheLifeandPublicServiceofGeneralZacharyTaylorAnAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup     459006 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume1.txt
-rw-r--r--   1 hadoop hdfsadmingroup     505150 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume2.txt
-rw-r--r--   1 hadoop hdfsadmingroup     254941 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume3.txt
-rw-r--r--   1 hadoop hdfsadmingroup     209643 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume4.txt
-rw-r--r--   1 hadoop hdfsadmingroup     692051 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume5.txt
-rw-r--r--   1 hadoop hdfsadmingroup     601102 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume6.txt
-rw-r--r--   1 hadoop hdfsadmingroup     478689 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume7.txt
```



```
[hadoop@ip-172-31-12-162 datasets]$ ls
AbrahamLincoln___LincolnLetters.txt                                AbrahamLincoln___TheLifeandPublicServiceofGeneralZacharyTaylorAnAddress.txt
AbrahamLincoln___LincolnsFirstInauguralAddress.txt                 AbrahamLincoln___TheWritingsofAbrahamLincolnVolume1.txt
AbrahamLincoln___LincolnsGettysburgAddressGivenNovember-19-1863.txt   AbrahamLincoln___TheWritingsofAbrahamLincolnVolume2.txt
AbrahamLincoln___LincolnsInauguralsAddressesandLettersSelections.txt  AbrahamLincoln___TheWritingsofAbrahamLincolnVolume3.txt
AbrahamLincoln___LincolnsSecondInauguralAddress.txt                AbrahamLincoln___TheWritingsofAbrahamLincolnVolume4.txt
AbrahamLincoln___SpeechesandLettersofAbrahamLincoln1832-1865.txt      AbrahamLincoln___TheWritingsofAbrahamLincolnVolume5.txt
AbrahamLincoln___StateoftheUnionAddresses.txt                      AbrahamLincoln___TheWritingsofAbrahamLincolnVolume6.txt
AbrahamLincoln___TheEmancipationProclamation.txt                   AbrahamLincoln___TheWritingsofAbrahamLincolnVolume7.txt
[hadoop@ip-172-31-12-162 datasets]$ hdfs dfs -ls /user/hadoop/datasets/gutenberg-small/
Found 16 items
-rw-r--r--   1 hadoop hdfsadmingroup       5878 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnLetters.txt
-rw-r--r--   1 hadoop hdfsadmingroup      21586 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsFirstInauguralAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup       1653 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsGettysburgAddressGivenNovember-19-1863.txt
-rw-r--r--   1 hadoop hdfsadmingroup     262083 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsInauguralsAddressesandLettersSelections.txt
-rw-r--r--   1 hadoop hdfsadmingroup       4093 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___LincolnsSecondInauguralAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup     516298 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___SpeechesandLettersofAbrahamLincoln1832-1865.txt
-rw-r--r--   1 hadoop hdfsadmingroup     167895 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___StateoftheUnionAddresses.txt
-rw-r--r--   1 hadoop hdfsadmingroup       3928 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheEmancipationProclamation.txt
-rw-r--r--   1 hadoop hdfsadmingroup      45664 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheLifeandPublicServiceofGeneralZacharyTaylorAnAddress.txt
-rw-r--r--   1 hadoop hdfsadmingroup     459006 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume1.txt
-rw-r--r--   1 hadoop hdfsadmingroup     505150 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume2.txt
-rw-r--r--   1 hadoop hdfsadmingroup     254941 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume3.txt
-rw-r--r--   1 hadoop hdfsadmingroup     209643 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume4.txt
-rw-r--r--   1 hadoop hdfsadmingroup     692051 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume5.txt
-rw-r--r--   1 hadoop hdfsadmingroup     601102 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume6.txt
-rw-r--r--   1 hadoop hdfsadmingroup     478689 2024-11-22 23:35 /user/hadoop/datasets/gutenberg-small/AbrahamLincoln___TheWritingsofAbrahamLincolnVolume7.txt
```

2. Gestion de archivos mediante HUE en Amazon EMR
   Accedemos al servicio de HUE en las aplicaciones de nuestro clúster



Interfaces de usuario de aplicaciones Información

Las aplicaciones instaladas en el clúster de Amazon EMR publican interfaces de usuario (IU) como sitios web. Puede utilizarlas para supervisar la actividad del clúster.

● IU de la aplicación en el clúster
Las IU en el clúster solo están disponibles mientras se está ejecutando el clúster. Utilice los siguientes enlaces para comenzar. Para obtener acceso a todas las IU de la aplicación, configure el túnel de SSH.

○ IU de aplicación persistente
Las IU persistentes no requieren el túnel de SSH, ya que se alojan fuera del clúster y están disponibles durante 30 días después de que finalice la aplicación.

IU de la aplicación activas

Estas IU de aplicaciones en clúster están disponibles sin el túnel de SSH.

IU de la aplicación
IU del servidor de historial de Spark

IU de la aplicación en el nodo principal

Habilitar una conexión SSH

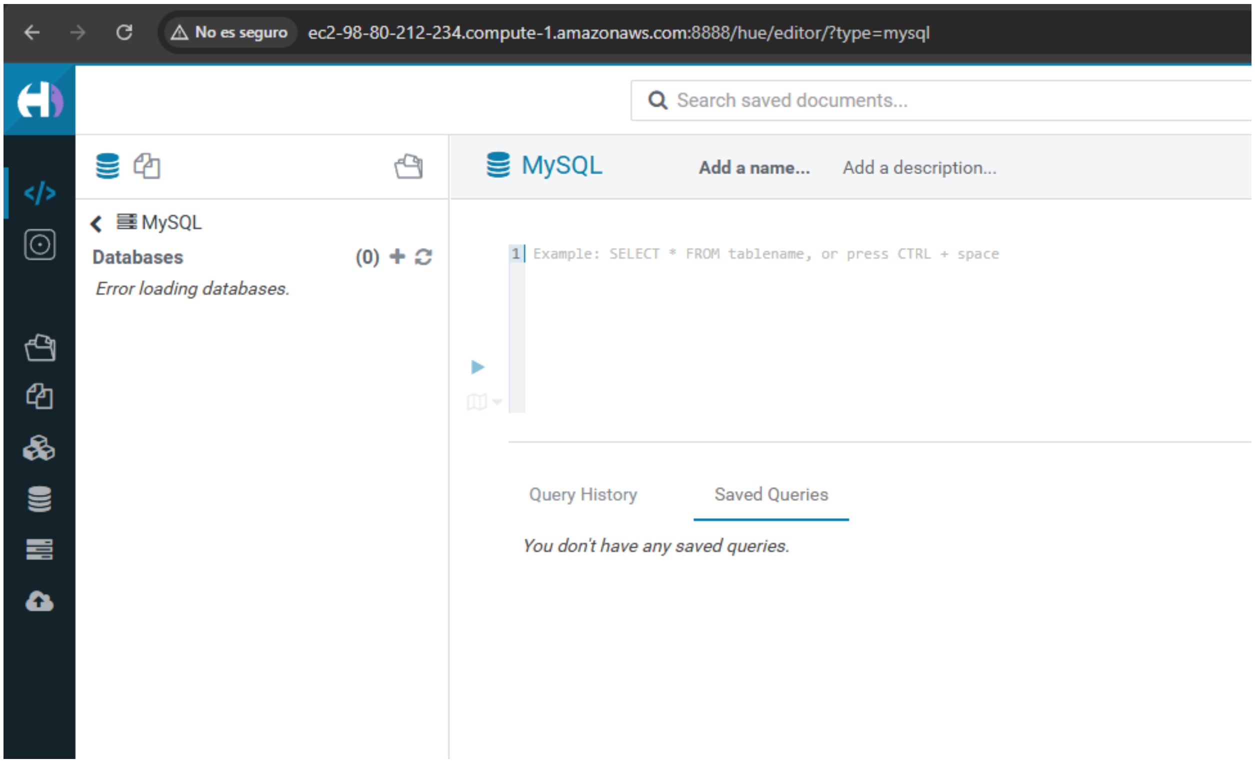
Estas requieren que el túnel de SSH esté habilitado.

Aplicación	URL de la IU
Administrador de recursos	http://ec2-98-80-212-234.compute-1.amazonaws.com:8088/
JupyterHub	https://ec2-98-80-212-234.compute-1.amazonaws.com:9443/
Livy	http://ec2-98-80-212-234.compute-1.amazonaws.com:8998/
Nodo del nombre de HDFS	-212-234.compute-1.amazonaws.com:9870/
Servidor de historial de Spark	-212-234.compute-1.amazonaws.com:18080/
Tonalidad	http://ec2-98-80-212-234.compute-1.amazonaws.com:8888/
Zeppelin	http://ec2-98-80-212-234.compute-1.amazonaws.com:8890/

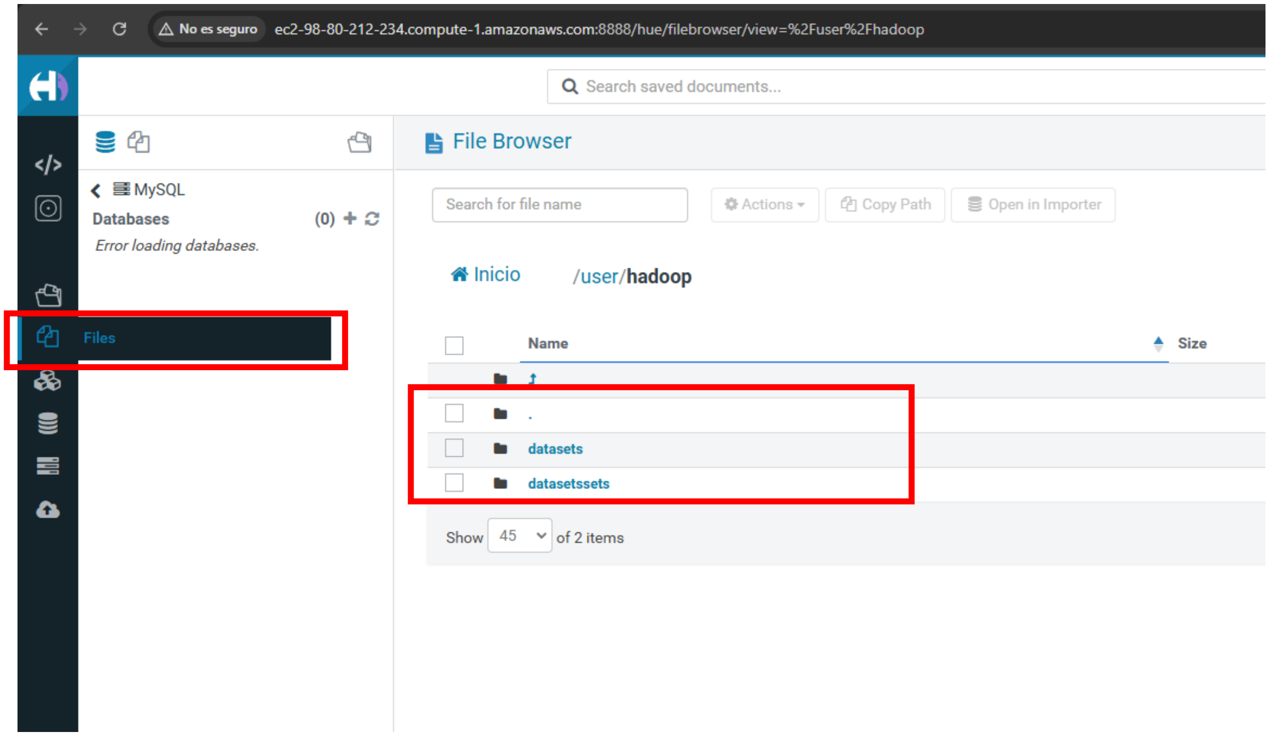
URL de la IU Tonalidad copiado

IU de aplicaciones en los nodos principales y de tareas

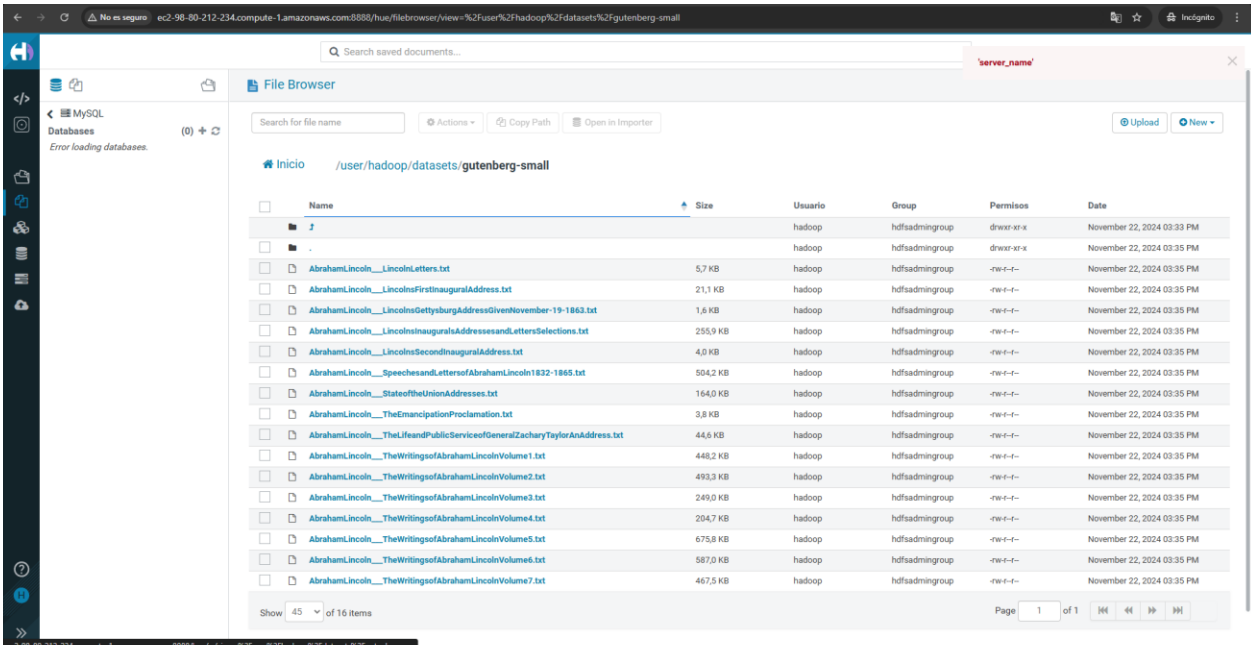
Luego de iniciar sesión veremos la siguiente interfaz


No es seguro
ec2-98-80-212-234.compute-1.amazonaws.com:8888/hue/editor/?type=mysql
Search saved documents...
MySQL
Add a name...
Add a description...
MySQL
Databases
(0)
Error loading databases.
1 Example: SELECT * FROM tablename, or press CTRL + space
Query History
Saved Queries
You don't have any saved queries.

Nos dirigimos en la barra de navegación a “files”



Navegamos hasta los archivos que compartimos


ec2-98-80-212-234.compute-1.amazonaws.com:8888/hue/filebrowser/view=%2Fuser%2Fhadoop%2Fdatasets%2Fgutenberg-small
Search saved documents...
'server_name'
File Browser
MySQL
Databases
Error loading databases.
Search for file name
Actions
Copy Path
Open in Importer
Upload
New
Inicio

/user/hadoop/datasets/**gutenberg-small**

Name	Size	Usuario	Group	Permisos	Date
↥		hadoop	hdfsadmingroup	drwxr-xr-x	November 22, 2024 03:33 PM
.		hadoop	hdfsadmingroup	drwxr-xr-x	November 22, 2024 03:35 PM
AbrahamLincoln___LincolnLetters.txt	5,7 KB	hadoop	hdfsadmingroup	-rw-r--r--	November 22, 2024 03:35 PM
AbrahamLincoln___LincolnsFirstInauguralAddress.txt	21,1 KB	hadoop	hdfsadmingroup	-rw-r--r--	November 22, 2024 03:35 PM
AbrahamLincoln___LincolnsGettysburgAddressGivenNovember-19-1863.txt	1,6 KB	hadoop	hdfsadmingroup	-rw-r--r--	November 22, 2024 03:35 PM
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AbrahamLincoln___TheEmancipationProclamation.txt	3,8 KB	hadoop	hdfsadmingroup	-rw-r--r--	November 22, 2024 03:35 PM
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AbrahamLincoln___TheWritingsofAbrahamLincolnVolume7.txt	467,5 KB	hadoop	hdfsadmingroup	-rw-r--r--	November 22, 2024 03:35 PM

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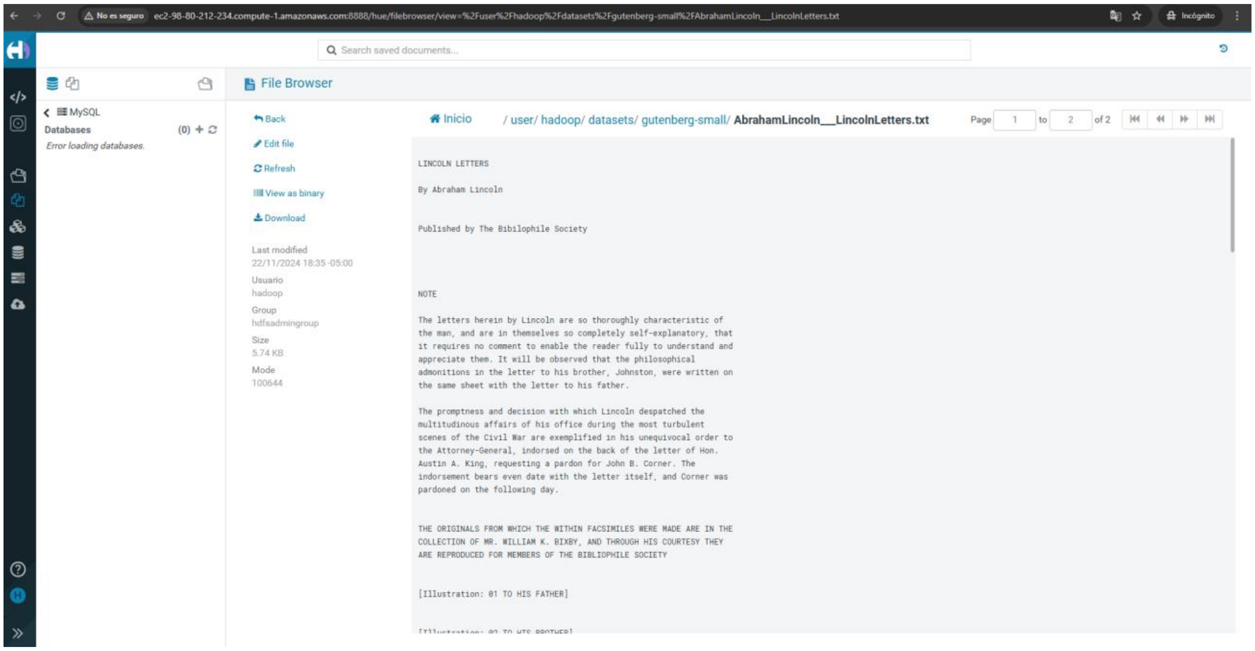
Vemos un archivo cargado en el sistema.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Search saved documents...
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Databases
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Page 1 to 2 of 2

/ user/ hadoop/ datasets/ gutenberg-small/ **AbrahamLincoln___LincolnLetters.txt**

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hadoop
Group
hdfsadmingroup
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Mode
100644

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LINCOLN LETTERS

By Abraham Lincoln


Published by The Bibilophile Society




NOTE

The letters herein by Lincoln are so thoroughly characteristic of
the man, and are in themselves so completely self-explanatory, that
it requires no comment to enable the reader fully to understand and
appreciate them. It will be observed that the philosophical
admonitions in the letter to his brother, Johnston, were written on
the same sheet with the letter to his father.

The promptness and decision with which Lincoln despatched the
multitudinous affairs of his office during the most turbulent
scenes of the Civil War are exemplified in his unequivocal order to
the Attorney-General, indorsed on the back of the letter of Hon.
Austin A. King, requesting a pardon for John B. Corner. The
indorsement bears even date with the letter itself, and Corner was
pardoned on the following day.


THE ORIGINALS FROM WHICH THE WITHIN FACSIMILES WERE MADE ARE IN THE
COLLECTION OF MR. WILLIAM K. BIXBY, AND THROUGH HIS COURTESY THEY
ARE REPRODUCED FOR MEMBERS OF THE BIBLIOPHILE SOCIETY


[Illustration: 01 TO HIS FATHER]


[Illustration: 02 TO HIS BROTHER]
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