## Accessing HDFS

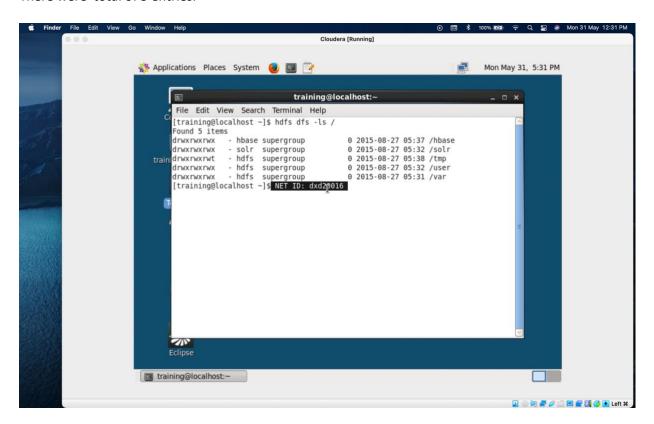
Divyansh Dahiya

## LAB Chapter 03: ACCESS HDFS

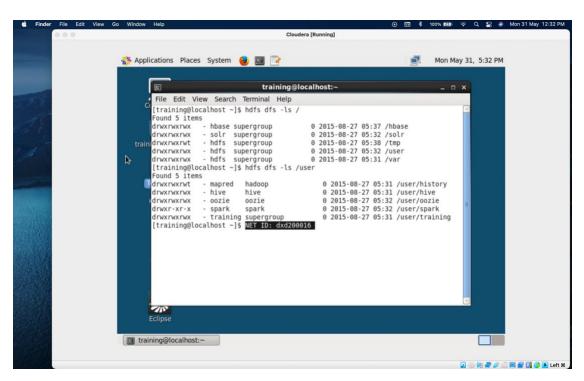
## Access HDFS with Command Line and Hue

In this lab I practiced working with HDFS. I used command line and Hue Interface to manipulate files stored in HDFS.

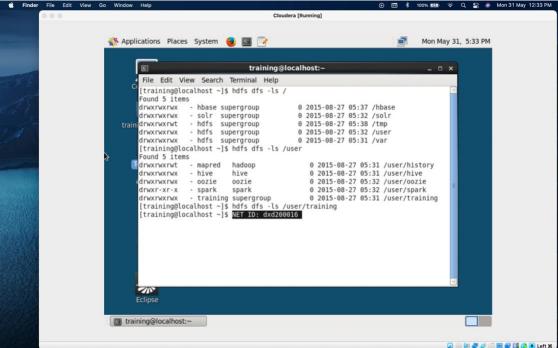
1. First I opened the terminal window and entered the following command: hdfs dfs -ls / After running this command I was able to see the contents of root directory in HDFS. There were total of 5 entries.



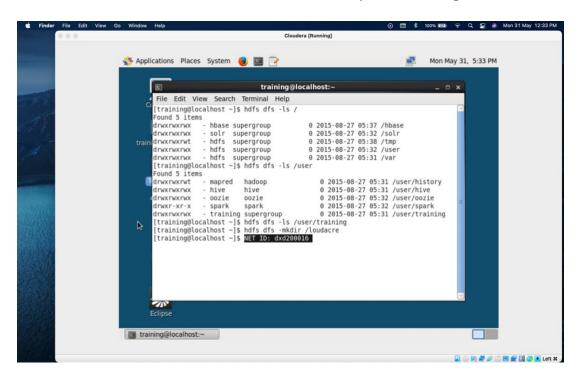
2. Then I ran the following command: hdfs dfs -ls /user
After running the command I was able to see user directory and the all the listings in the directory.



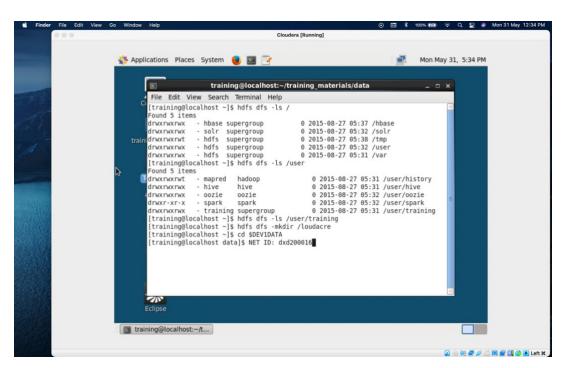
3. Then I ran the following command: hdfs dfs -ls /user/training I ran this command to view the contents of my home directory. It was empty as there are no files.



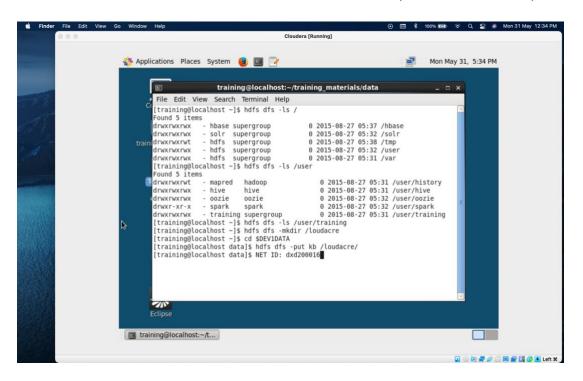
4. After that, I ran a command to create a new directory while working on future labs and assignments



5. Then I ran a command to change the directory of the command line terminal.

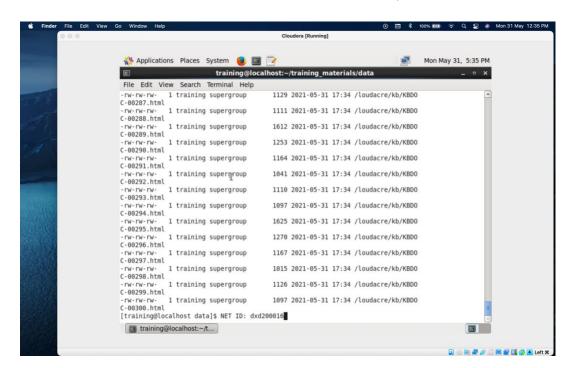


6. Now, to upload the contents of the folder KB, I ran the following command: hdfs dfs -ls /loudacre/kb Below is the screenshot, that the command ran successfully and I was able to upload the contents of KB.



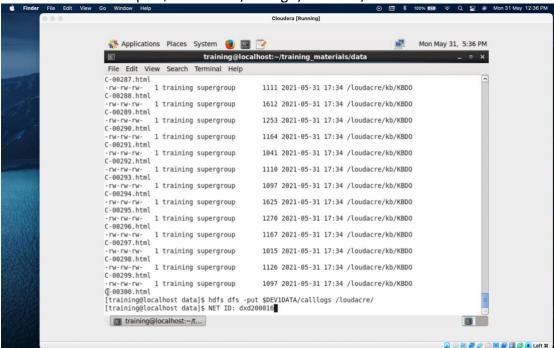
7. After that, to verify if my previous upload command ran successfully, I ran the following command: hdfs dfs -ls /loudacre/kb

Below is the screenshot of all the contents in the loudacre/kb in HDFS

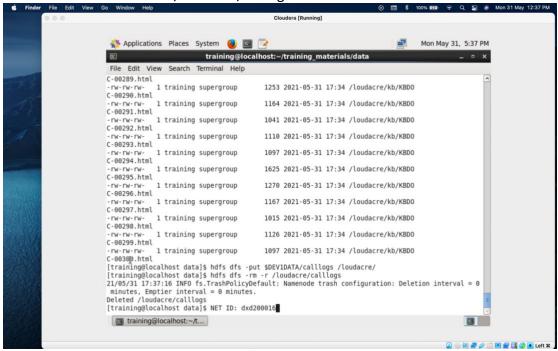


8. Also, I practiced uploading some data and removing them as they were no longer needed. Below is the screenshot of the same:

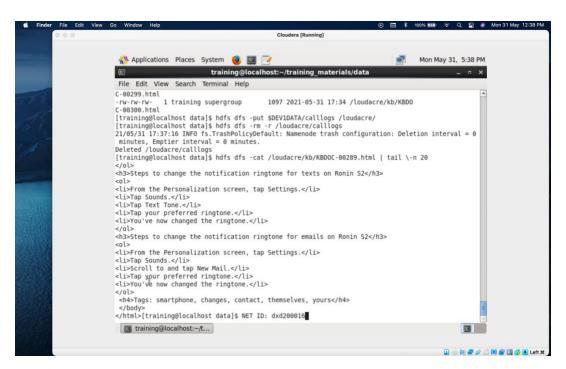
Command: hdfs dfs -put \$DEV1DATA/calllogs /loudacre/



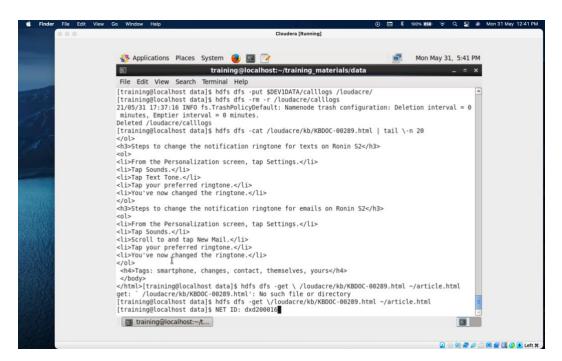
Command: hdfs dfs -rm -r /loudacre/calllogs



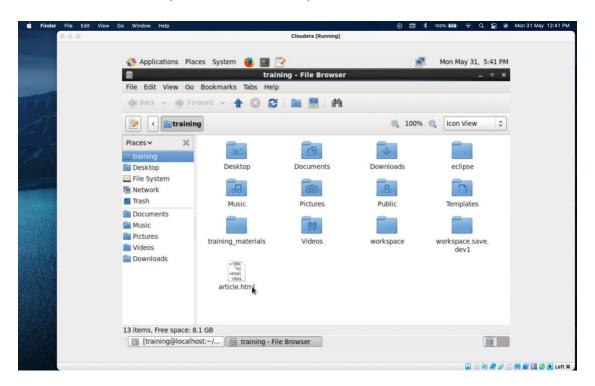
Now, I tried to view the contents of the file in the HDFS
 Command: hdfs dfs -cat /loudacre/kb/KBDOC-00289.html | tail \-n 20
 Below is screenshot of the contents of KBDOC-00289.html file.



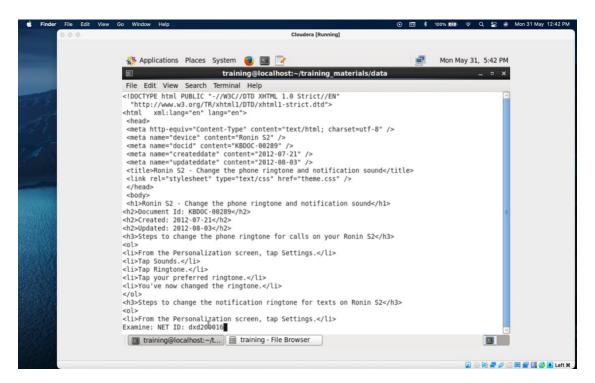
10. Now I copied the data from the hdfs file into a file called article.html in the local system. Command: hdfs dfs -get \ /loudacre/kb/KBDOC-00289.html ~/article.html



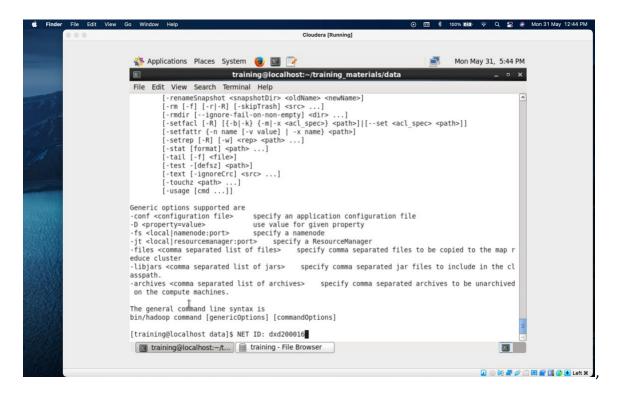
The file was successfully stored in the local system.



Then I open the file (article.html) stored locally using the command line. Command: less ~/article.html

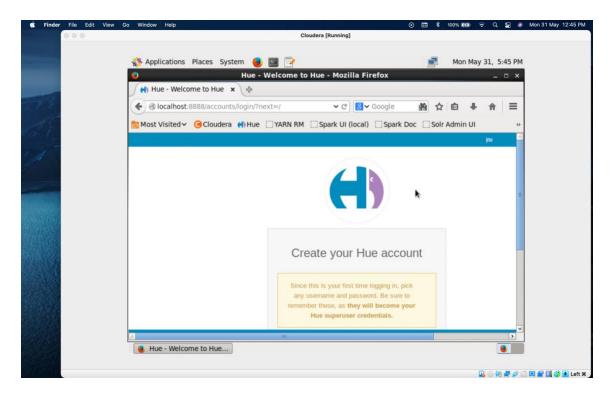


11. Finally, I ran a command to view all important commands while working with HDFS on command line. Command: hdfs dfs

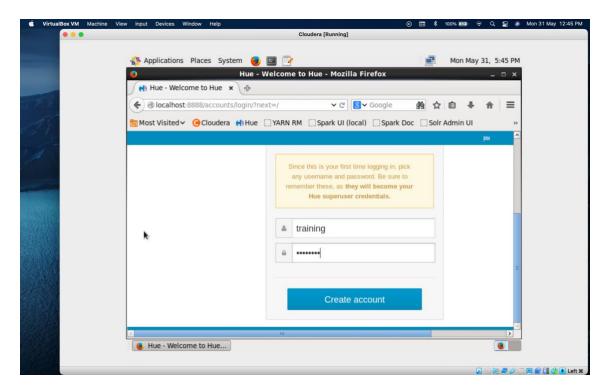


12. Now, I went to the Firefox browser to view open the HUE file browser interface.

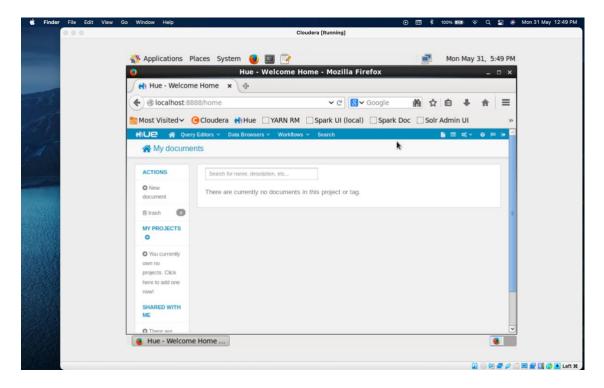
Site: https://localhost:8888



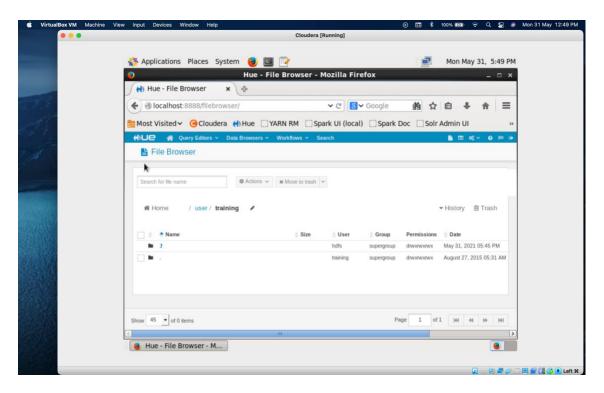
13. Now to login, I created an account first with username training.



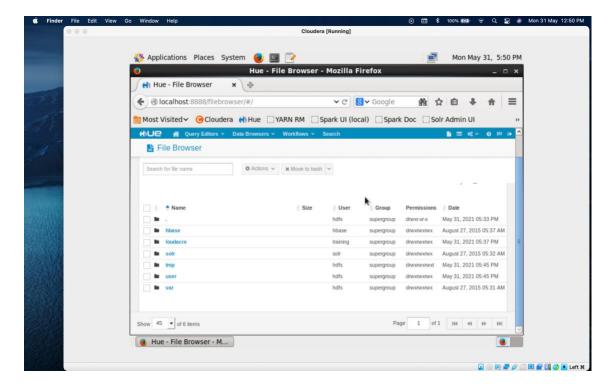
14. After logging in I was able to see the HUE dashboard.



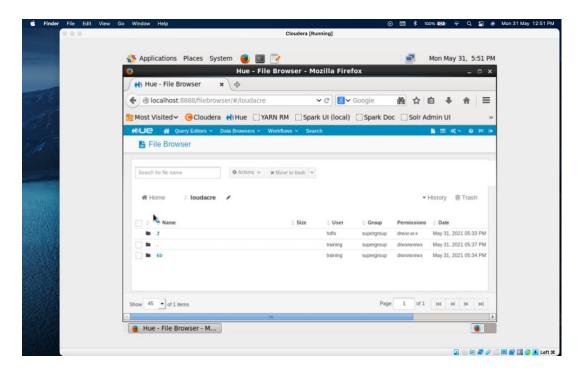
15. Then I clicked on the file browser on the menu on the top of dashboard to open the file browser.



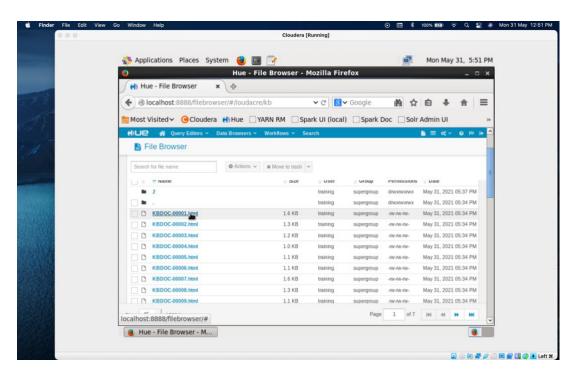
16. After that opened the HDFS root directory to view the contents inside.



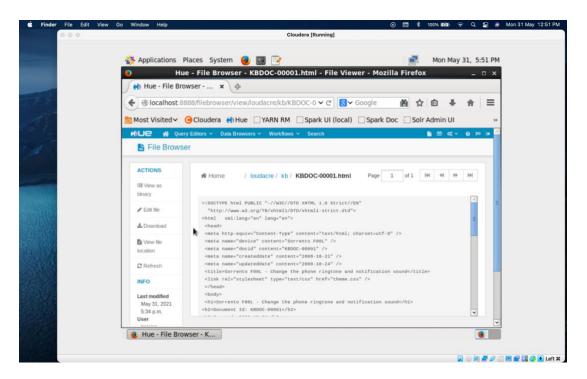
17. Then I click on the loudacre folder to view the contents.



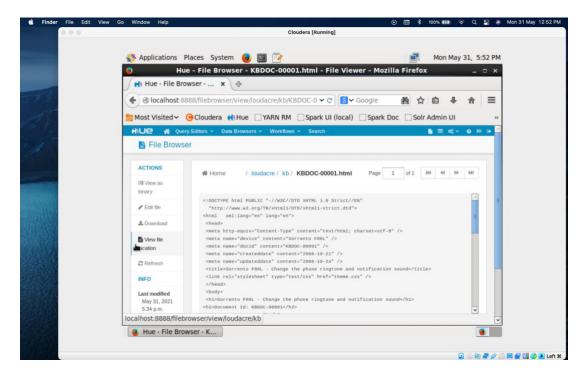
18. After that I opened the kb folder to view the files uploaded in the same.



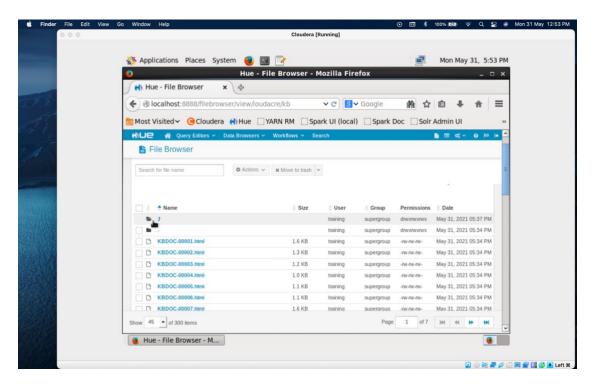
19. After that I click on the KBDOC-0001.html to view the contents of the file. I was able to view all the contents inside the file.



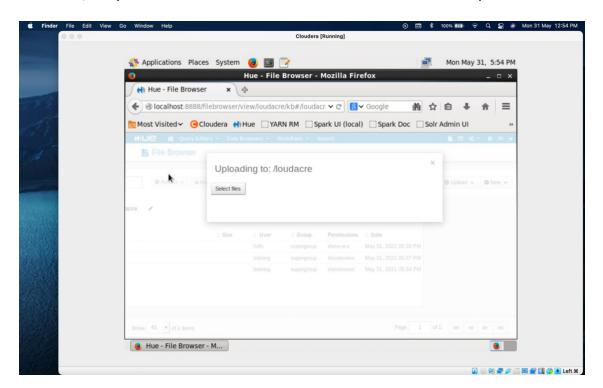
20. After that to go back to the file location I clicked on the View File Location.



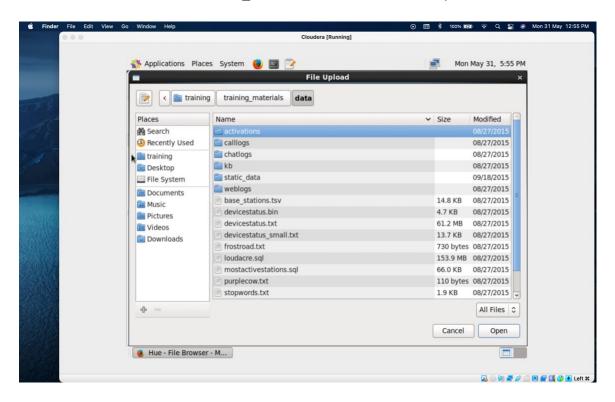
21. Then I click on the return arrow to go back to the base directory



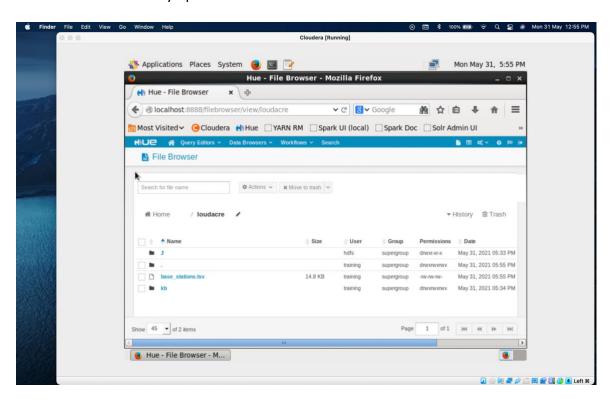
22. After that, to upload more files in the loudacre folder I clicked on the upload button.



23. Then I selected the file called base\_stations,tsv and click on the Open button.



24. The file was successfully uploaded and can be seen in the below screenshot.



25. Then I selected the file, and clicked on the actions button, to view all the action I can perform on the selected file.

There were mainly 5 actions that I was able to preform, as seen in the below screenshot.

