

# OracleVirtual Box and Cloudera QuickStart VM Installation- MAC OS

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## Abstract

This document is created as part of ALY6110 – Data Management and Big Data class. This document covers step -by-step instructions on installing Oracle Virtual Box and Cloudera QuickStart for VMWare on MAC OS.

Note: - This document doesn't cover installations of spark.

## A. Laptop Requirements

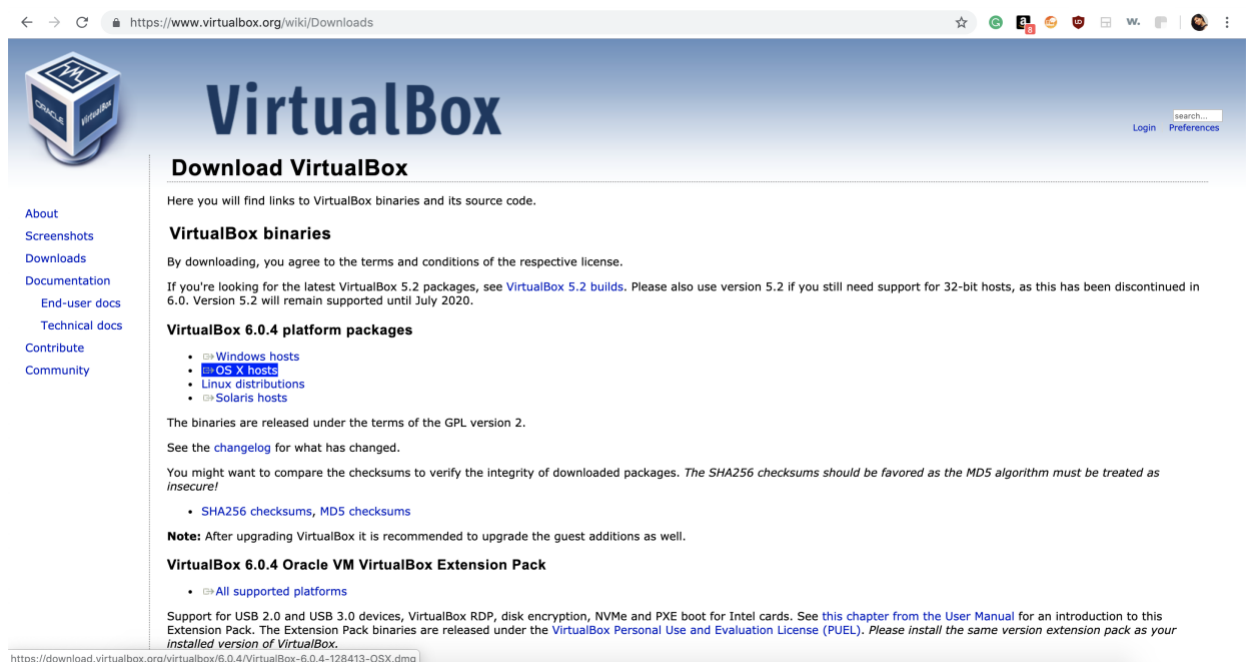
Following are the hardware (laptop) requirements to run Cloudera.

- a. Need 12 GB memory, 8GB to run Cloudera VM and 4GB of your native OS (MAC).
- b. Need at least 6 core CPU, 2 core to run Cloudera VM.
- c. Need at least 10GB of free space. To download Cloudera VM and Virtual Box

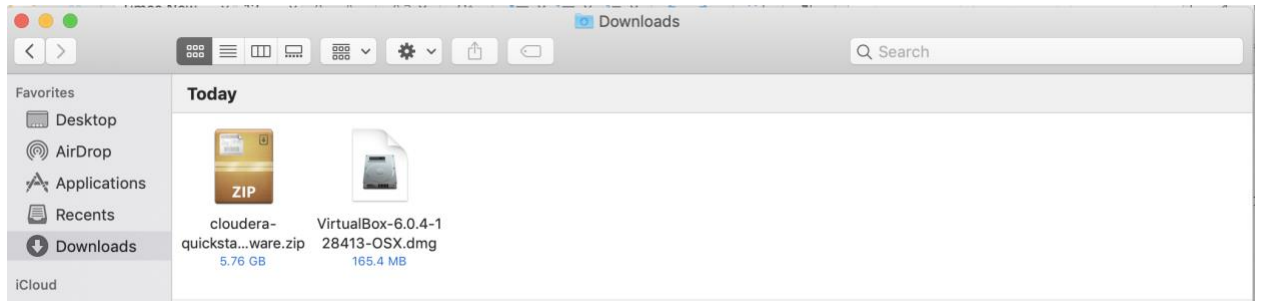
## B. Required Downloads

1. Download Virtual Box from the following link-

<https://www.virtualbox.org/wiki/Downloads>



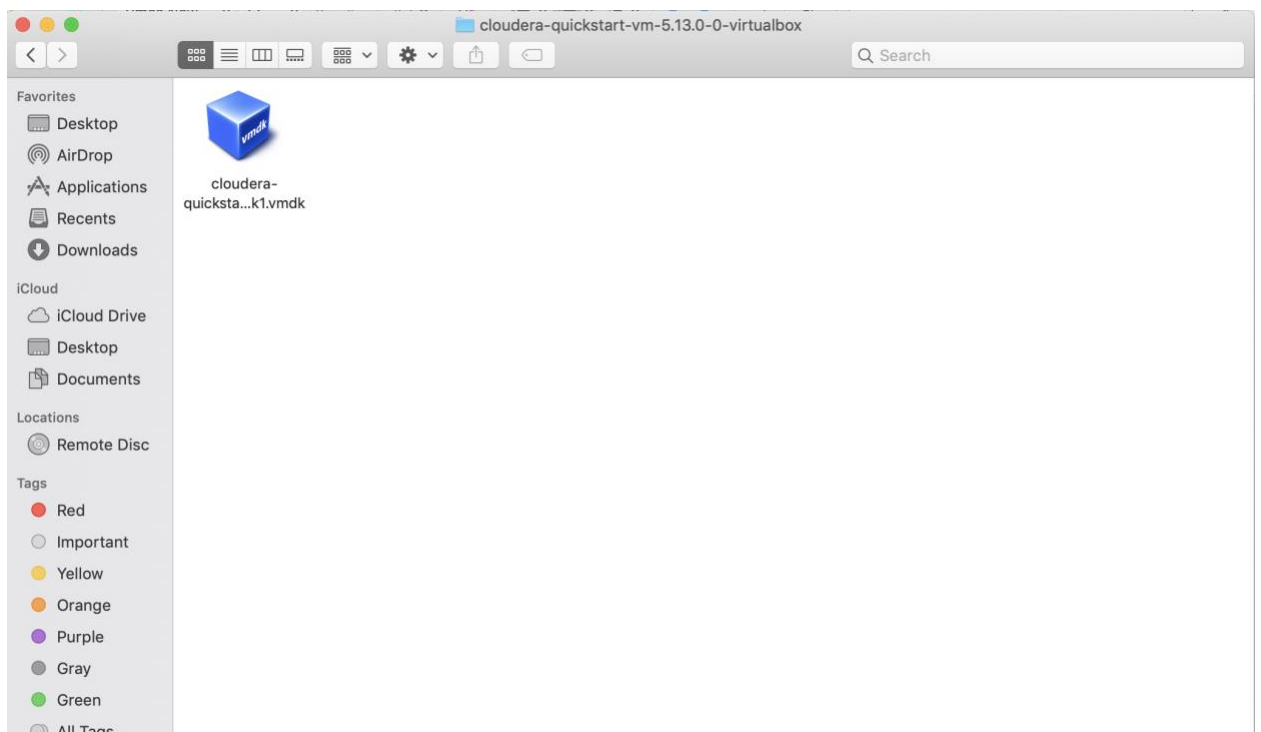
2. Download the Cloudera Express VirtualBox virtual image from -  
[https://downloads.cloudera.com/demo\\_vm/virtualbox/cloudera-quickstart-vm-5.13.0-0-virtualbox.zip](https://downloads.cloudera.com/demo_vm/virtualbox/cloudera-quickstart-vm-5.13.0-0-virtualbox.zip)
3. Unpack the Cloudera VM for Virtual Box, and import it into Virtual Box(VMWare workstation/Fusion)



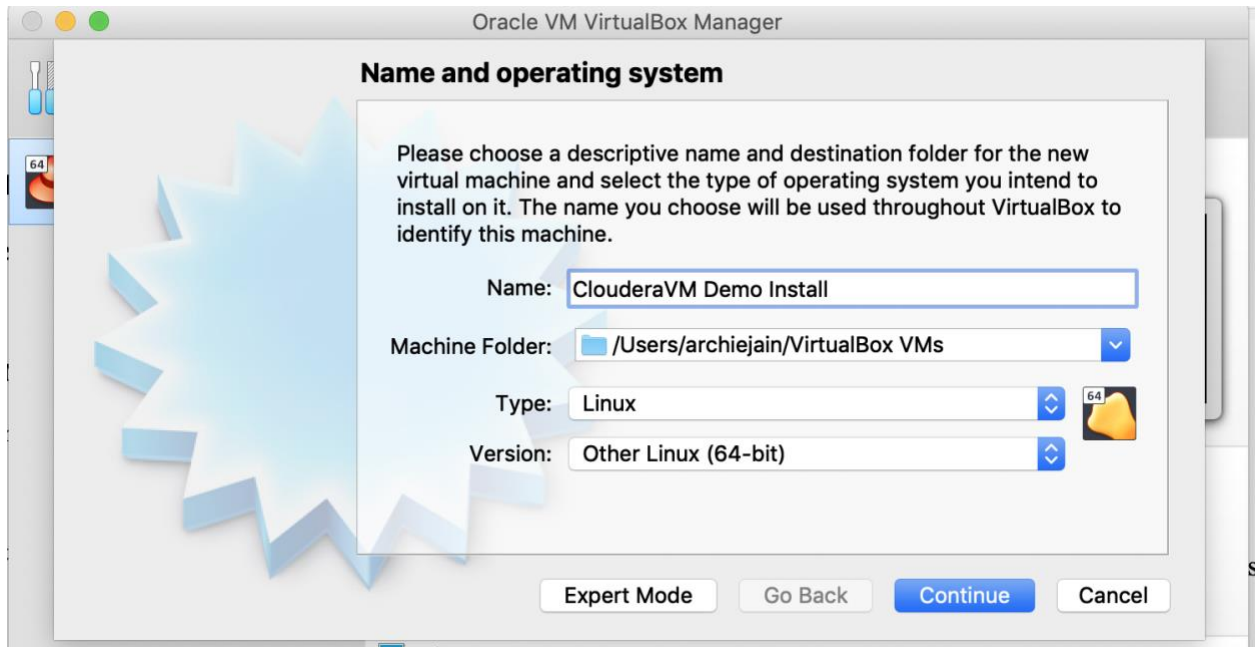
## C. Installation

4. Double click and Install Oracle VM Virtual Box. Follow the default values during the install.

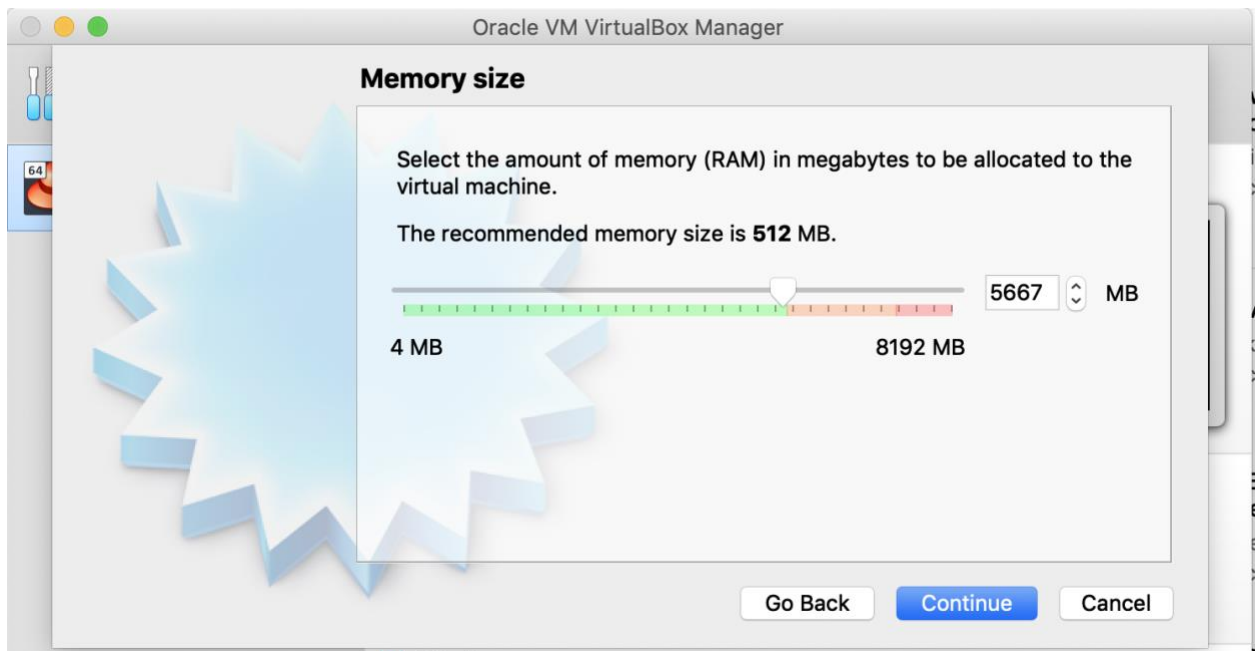
Unzip downloaded Cloudera QuickStart VM file in a new folder and below is the folder after unzip. For Mac OS system, use Unarchiver in order to extract and open the zip file.



5. Launch VirtualBox with the window screenshot below and clicked “New” button in order to create the new virtual machine as below. Select the type and version as mentioned in the below screenshot

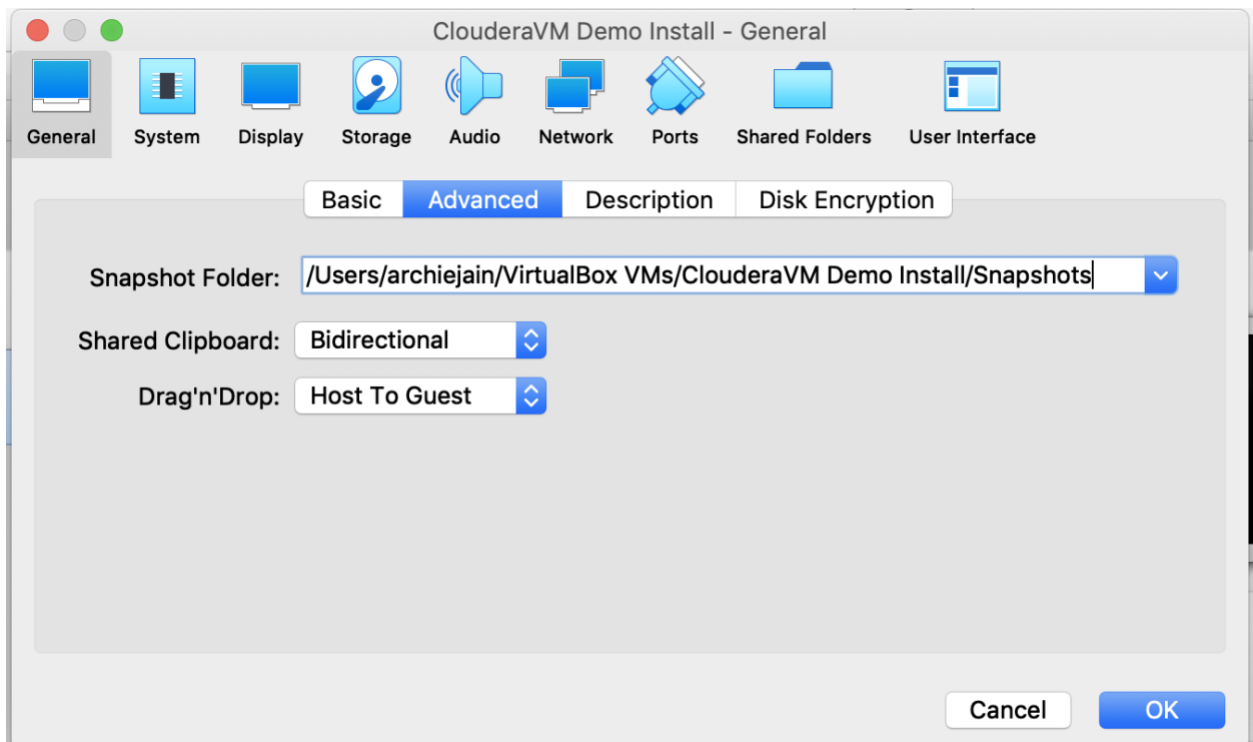


6. Assign memory to the VM, recommended is 8gigs but I'm assigning 5.6 gigs and use existing Virtual Hard Disk File (unzipped from cloudera folder) into the VB

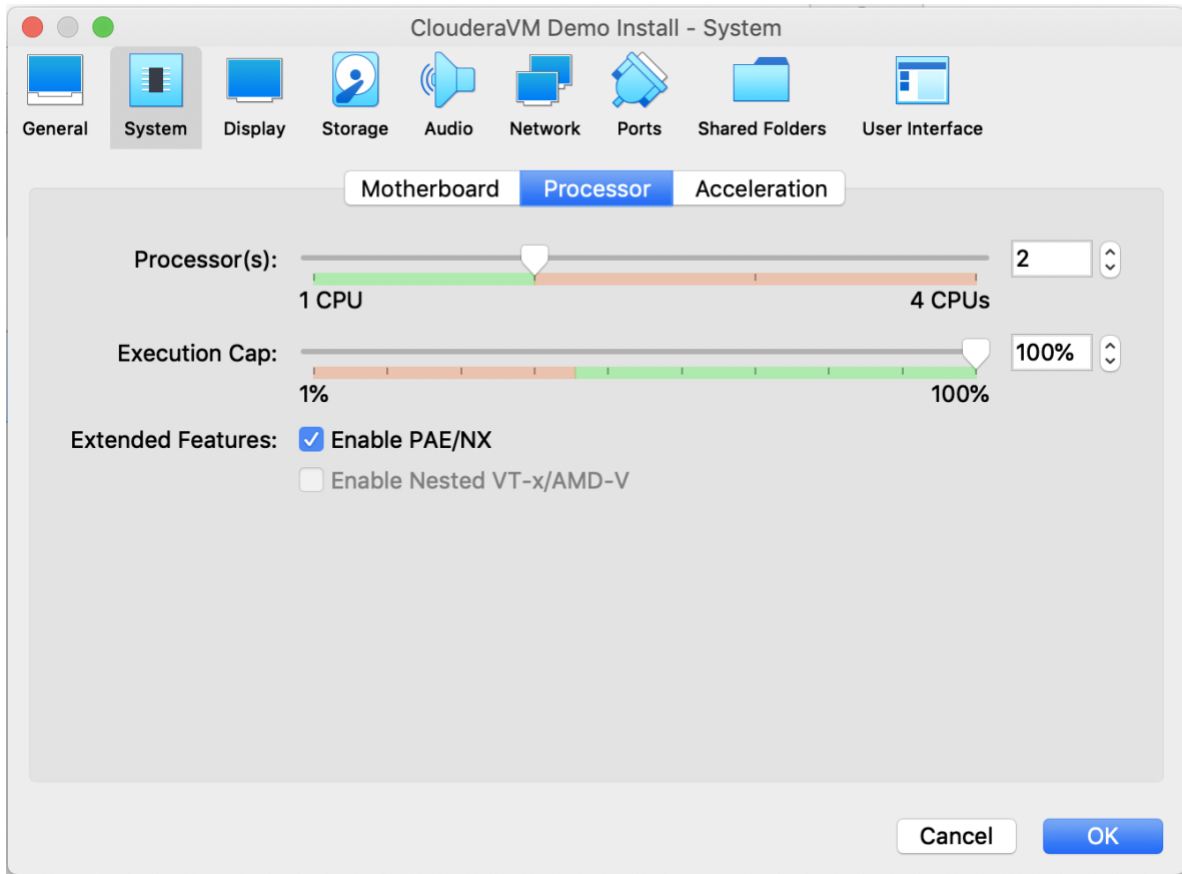




7. Select listed Cloudera Quickstart VM, right click to the properties and select “Settings”. Go to Advanced and select Bidirectional for Shared Clipboard and Host To Guest under Drag’n’Drop-



8. Go to System setting and select maximum physical cores available for better performance.



9. Click Ok.

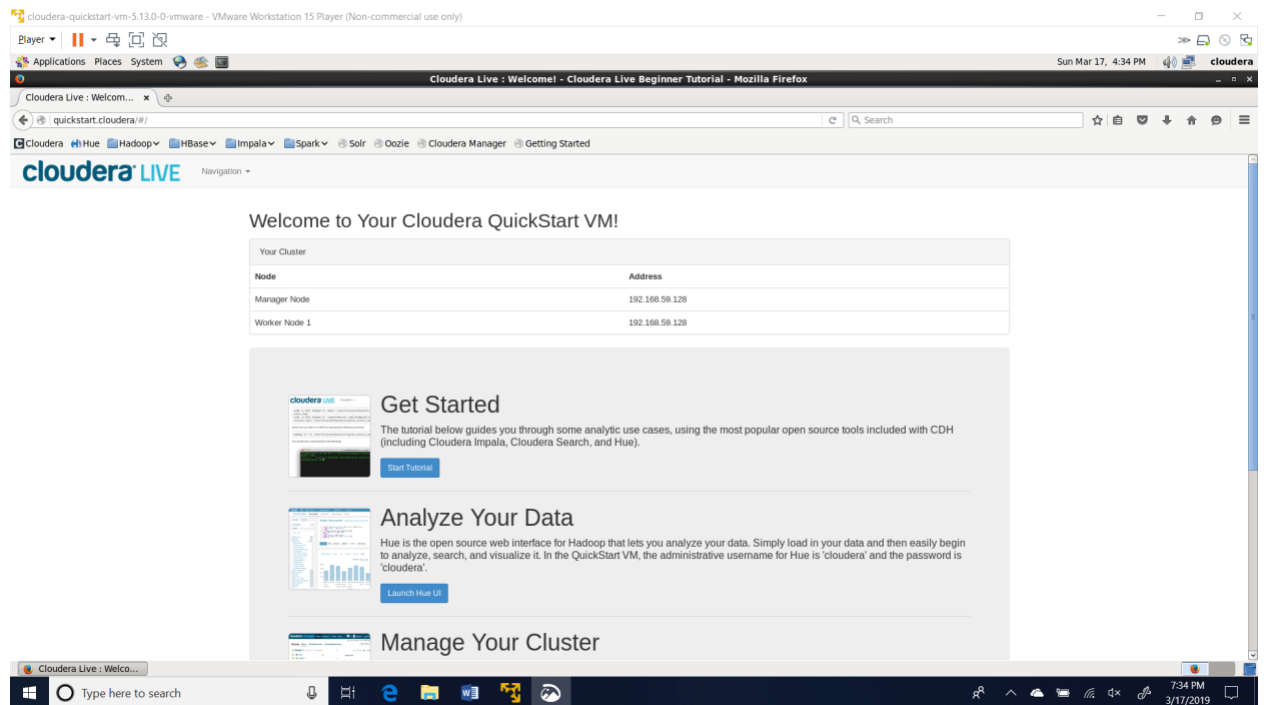
## D. Power On

10. Now select the machine and hit start button. You will see the screen as below-

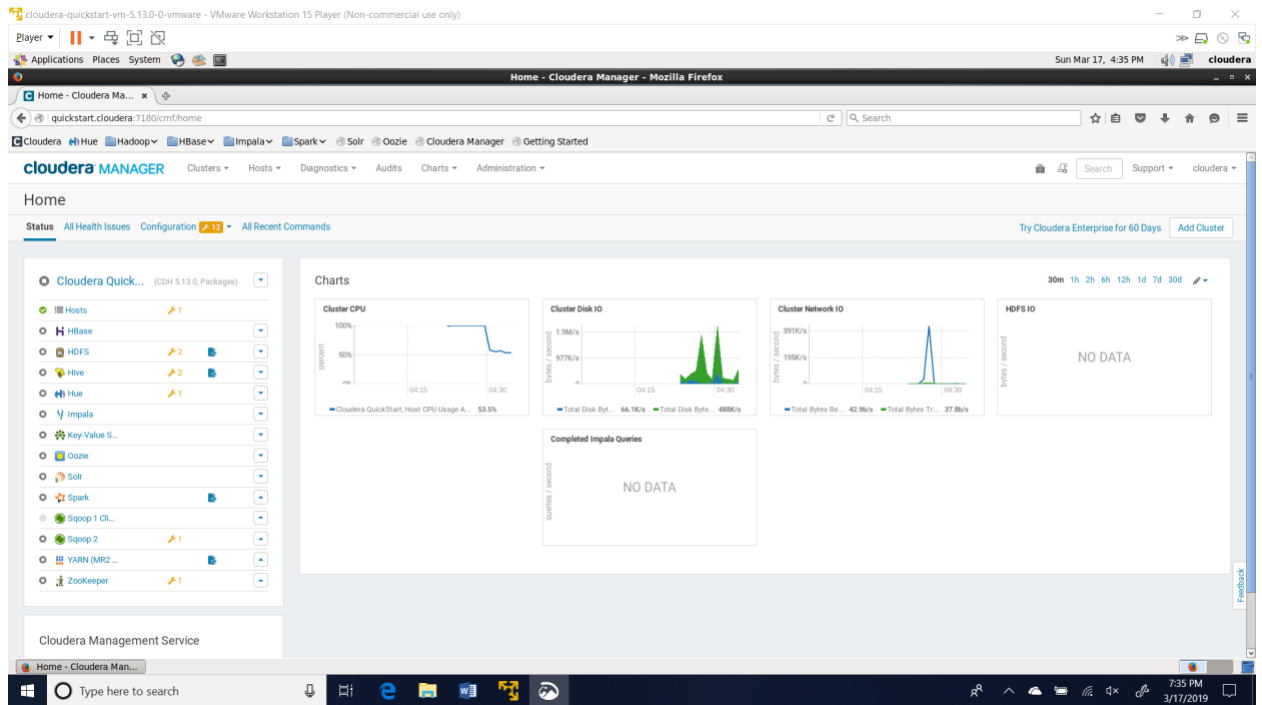




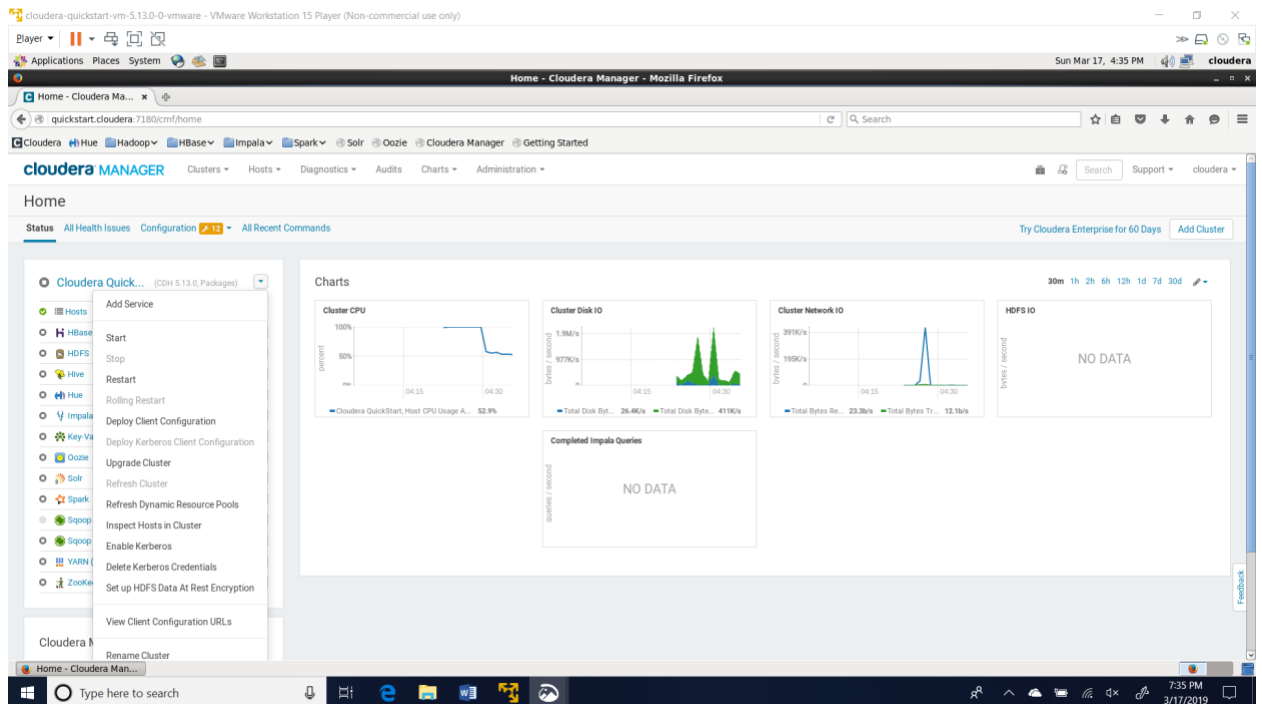
11. Since it first time, it will take bit longer and be patience.
12. After sucessful start, you will see Cludera opening in Moziall Firefox browser with Master and Worker Nodes.



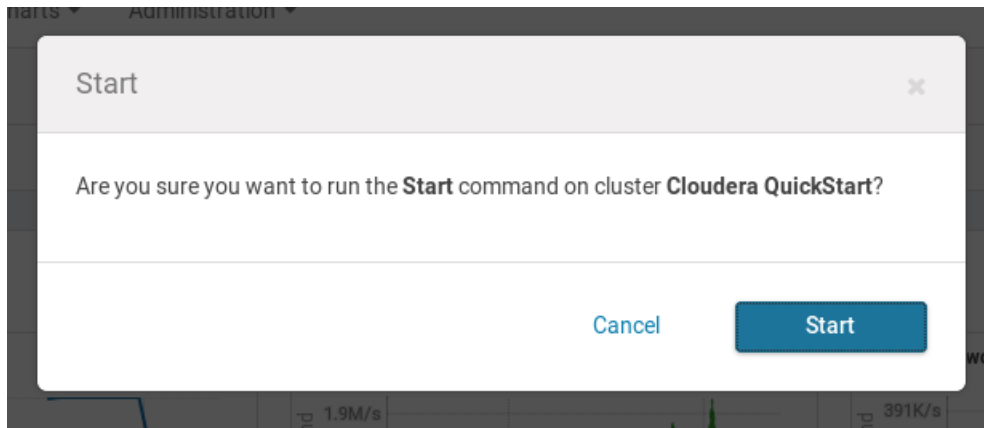
13. Click “Cloudera Manager” in Mozilla Firefox browser.
14. In the Cloudera Manager page, enter cloudera as username and password to login.
15. Upon successful login into Cloudera Manager, In the “Status” tab, on the left side, you can see packages listed.



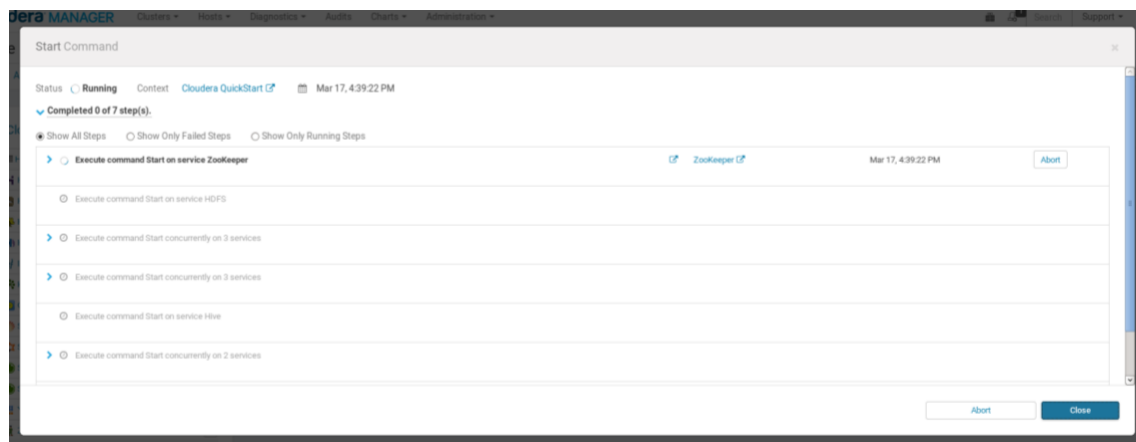
16. Select packages dropdown and click “Start”



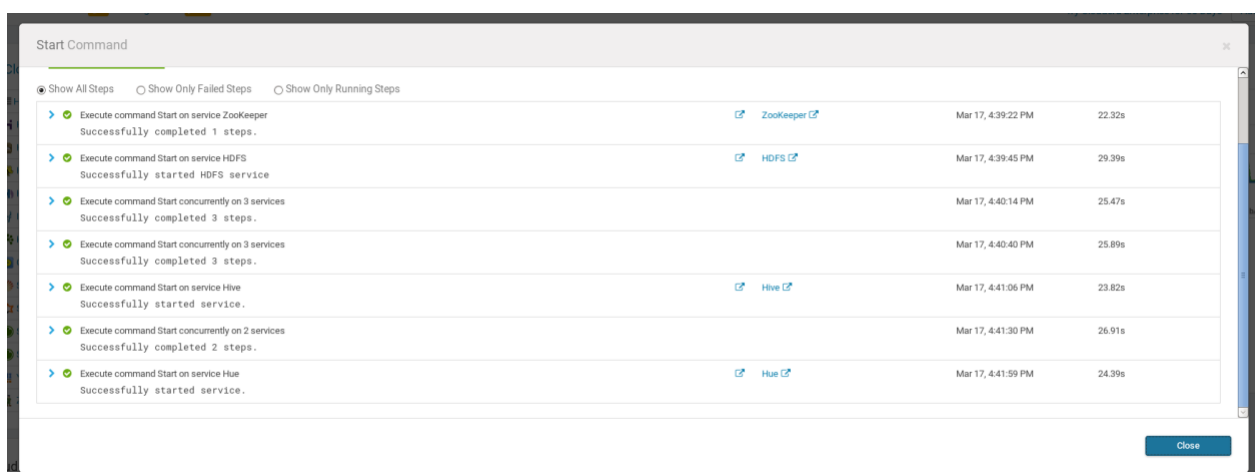
17. Confirm start message.



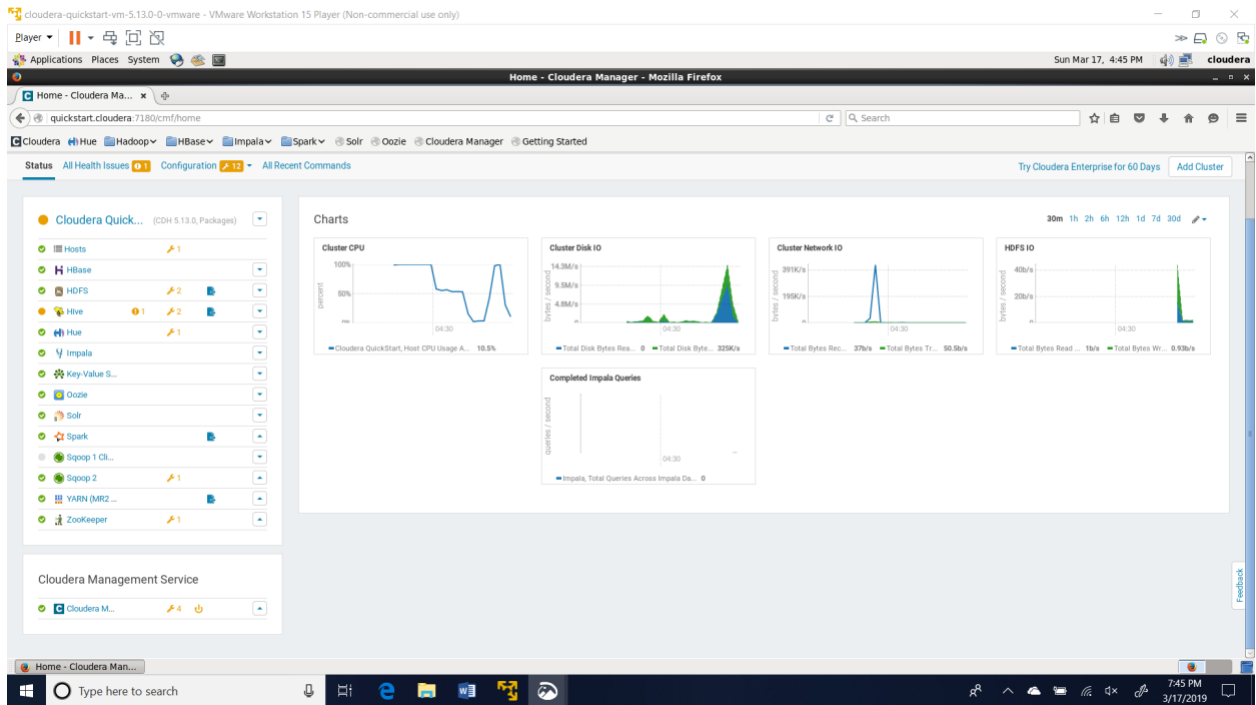
18. Be patience when all services are started.



19. Below is the screen after all services are successfully started.

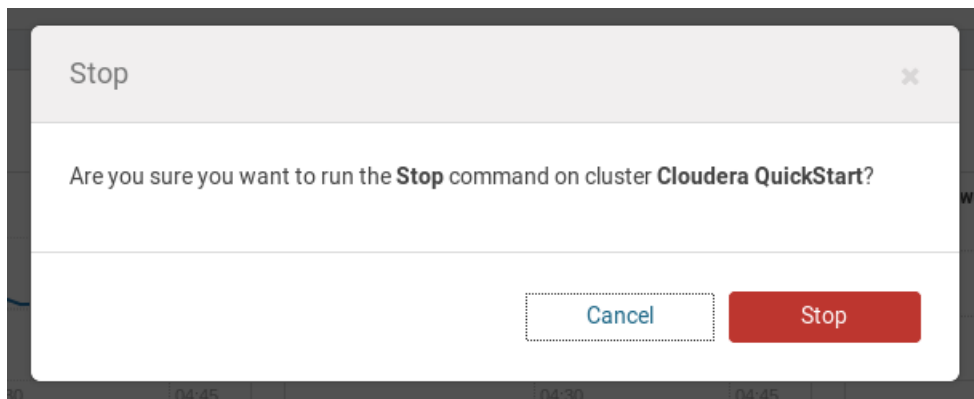


20. Main Cloudera Manager screen with all services up and running.



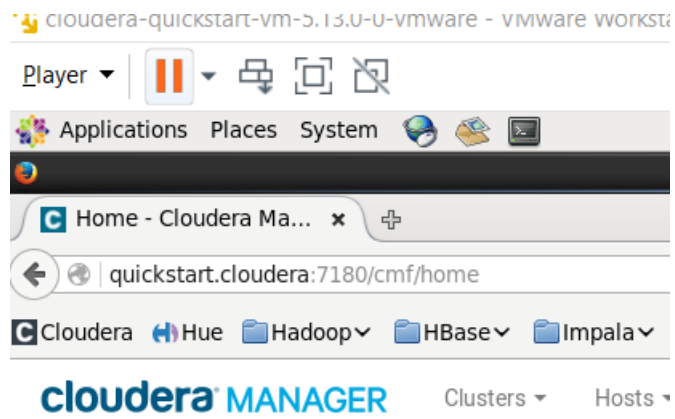
## E. Power Off/Shutdown

21. To Stop all services, Select “Stop” in the dropdown



22. Wait until all services are completed stopped.

23. On the left top, next to Player, select “Shutdown Guest”



24. Confirm Shutdown message.

## References

Sperlich, C. (2014, December 11). Virtual Box and Cloudera Quickstart VM Installation Tutorial. Retrieved from <https://www.youtube.com/watch?v=BeCtjd86YXo>

Hadoop, A., Inc, & Apache Software Foundation. (2018, October 12). The. Retrieved from <https://www.cloudera.com/developers/get-started-with-hadoop-tutorial/setup.html>