

Big Data Management and Analytics Lab

Lab Exercise 01: Install Cloudera on VirtualBox in Windows

Prerequisite:

At least 12GB+ RAM (4GB+ for operating system & 8GB+ for Cloudera), although 16 GB+ is preferred. 100GB Hard Disk. Cloudera runs on CentOS, which is the community edition of the Linux. Windows system must support 64-bit.

Step 1

Download VirtualBox for Windows
from <https://www.virtualbox.org/wiki/Downloads>



Step 2:

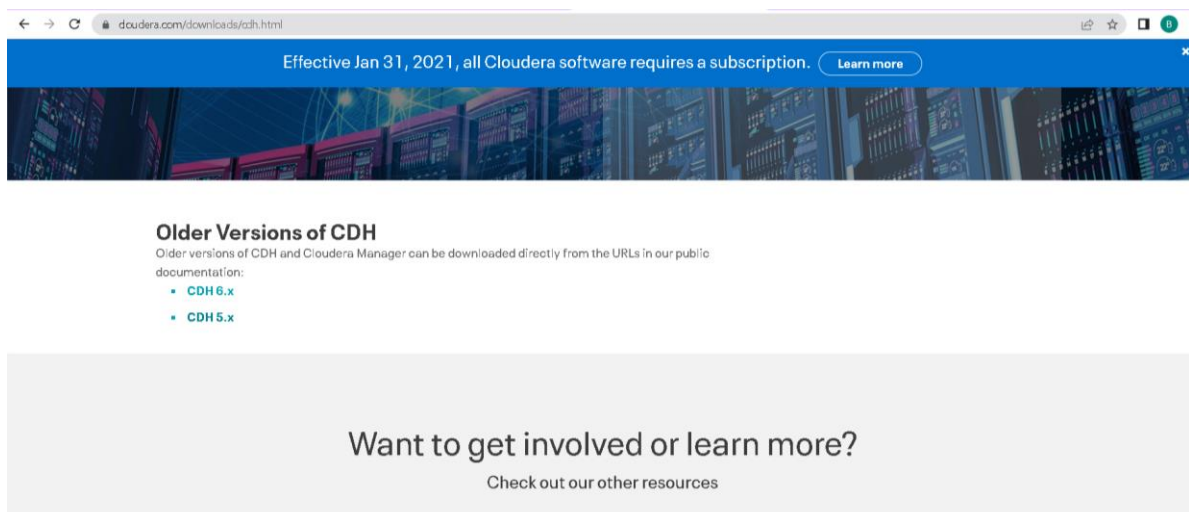
Install "VirtualBox-5.1.10-112026-Win.exe".

Install Cloudera for VirtualBox

Step 3:

Go to <http://www.cloudera.com/downloads.html>

download the "QuickStarts" click on "Download Now".



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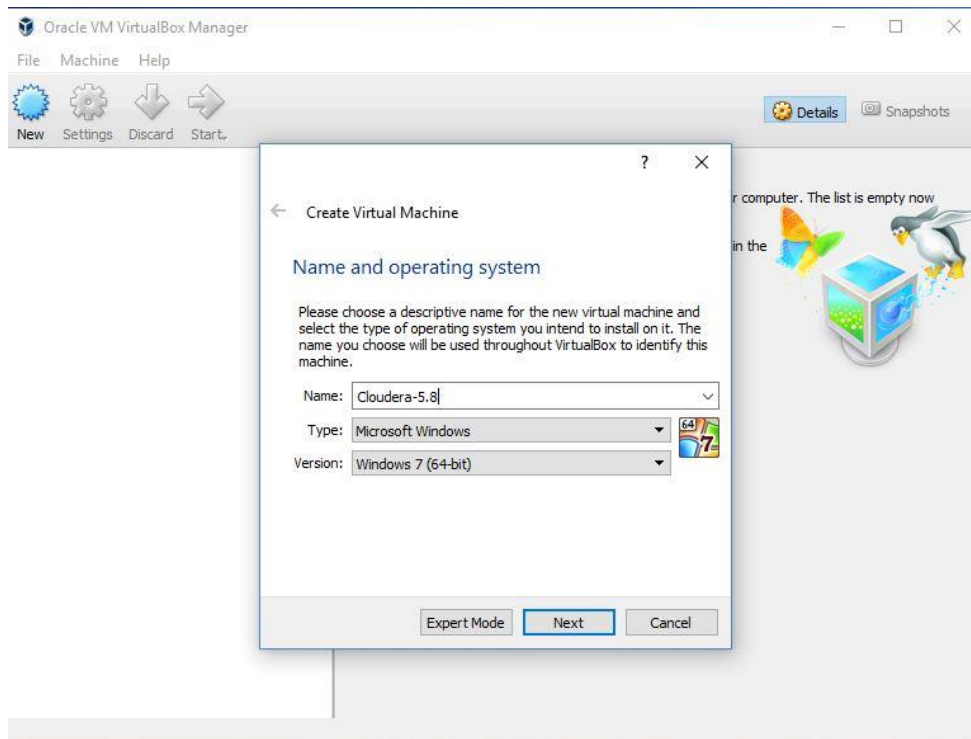
Step 4:

Extract the download “Cloudera-quickstart-VM-5.8.0-0-virtualbox.zip”. The extracted zip should have the “Cloudera-quickstart-VM-5.8.0-0-Virtualbox-disk1.vmdk”.

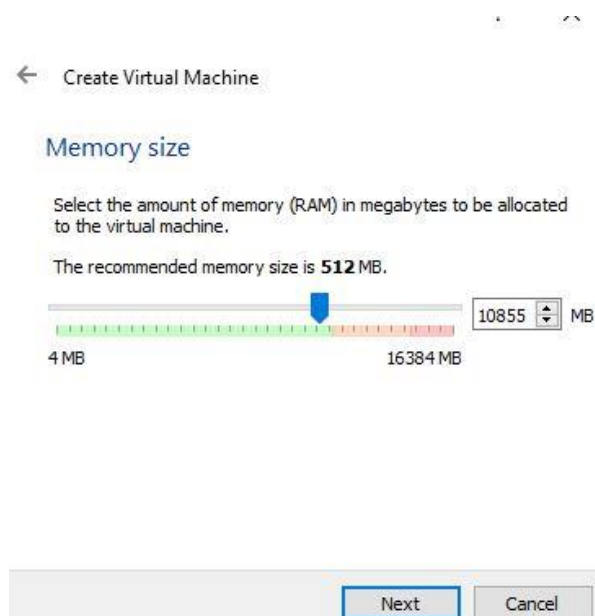
Configure Virtual Box And Cloudera

Step 5:

Open the VirtualBox, and create a new VM.



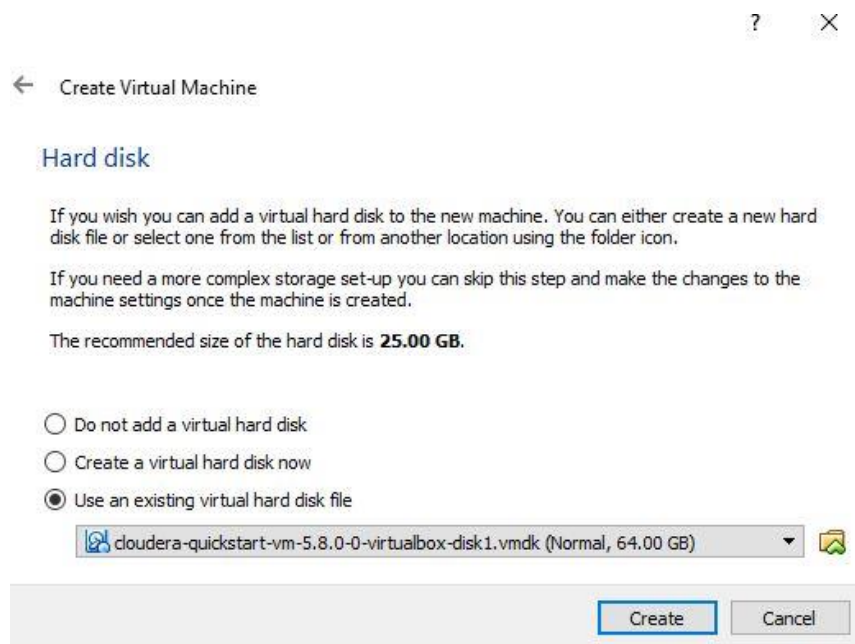
Step 6: Configure the RAM for VirtualBox



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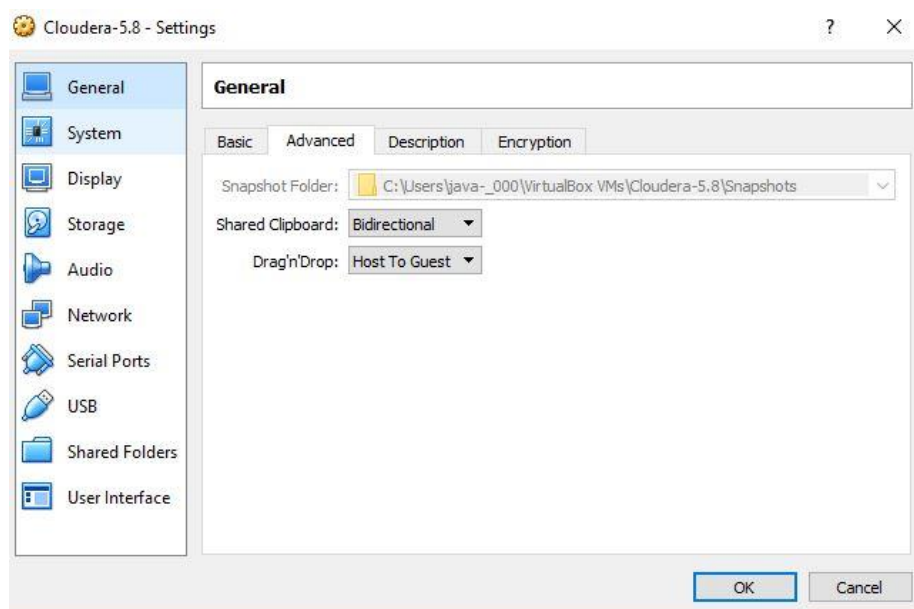
Step 7:

Add the Cloudera “Cloudera-quickstart-VM-5.8.0-0-Virtualbox-disk1.vmdk” that was previously downloaded and extracted



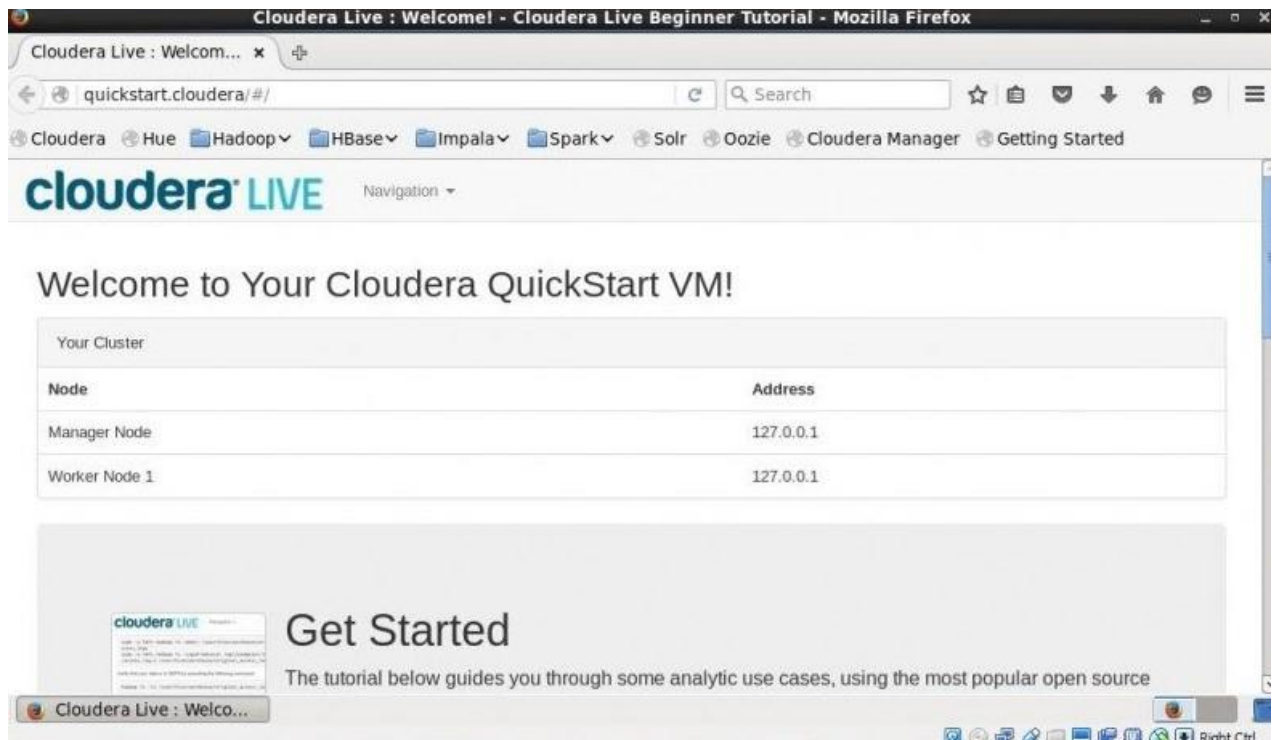
Step 8:

Click on “Settings”, and give more CPU cores if you have and enable the “bidirectional” drag/drop feature.



PowerOn the VM “Cloudera-5.8” that you had just added by double-clicking on it, and it will take some time to launch.

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Step 9:

Minimize the browser and Launch Cloudera Express on the Desktop. This requires at least 8 GB of RAM and at least 2 virtual CPUs



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Step 10:

It will take some time to start as per the system configuration that you have set.

```
Terminal
File Edit View Search Terminal Help
Using config: /etc/zookeeper/conf/zoo.cfg
[QuickStart] Disabling CDH services on boot...
error reading information on service kafka-server: No such file or directory
[QuickStart] Starting Cloudera Manager server...
[QuickStart] Waiting for Cloudera Manager API...
[QuickStart] Starting Cloudera Manager agent...
[QuickStart] Configuring deployment...
Submitted jobs: 14
[QuickStart] Deploying client configuration...
Submitted jobs: 16
[QuickStart] Starting Cloudera Management Service...
Submitted jobs: 24
[QuickStart] Enabling Cloudera Manager daemons on boot...

Success! You can now log into Cloudera Manager from the QuickStart VM's browser:

http://quickstart.cloudera:7180

Username: cloudera
Password: cloudera

Press [Enter] to exit...
```

and once started, you can log in via the browser with
[`http://quickstart.cloudera:7180/cm/`](http://quickstart.cloudera:7180/cm/)login into the “Cloudera Manager”

username: cloudera
password: cloudera

Step 11: Make sure that the relevant services are started, and if not start them as per the use.

