

# Big Data Management and Analytics Lab

---

## Lab Exercise 01: Install Cloudera on VirtualBox in Windows

**NAME : ANNAPOORNIMA S**

**ROLL NO : 225229101**

**BDMA EXERCISE -1**

---

### Step 1:

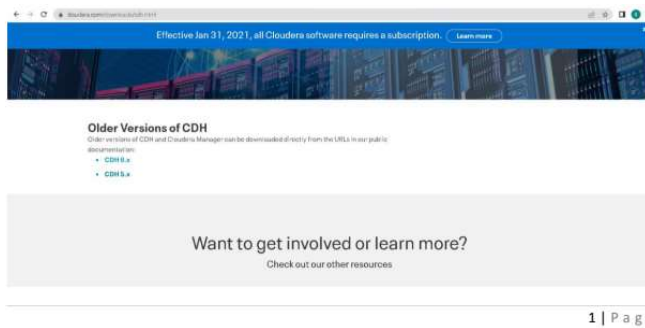
#### Download VirtualBox for Windows:



### Step 2:

#### Install “VirtualBox-5.1.10-112026-Win.exe”

### Step 3:



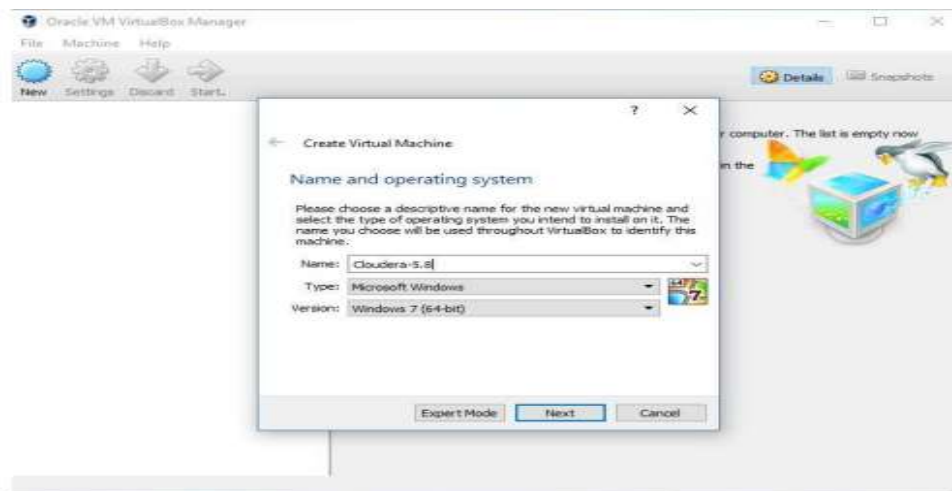
#### Step 4:

**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**

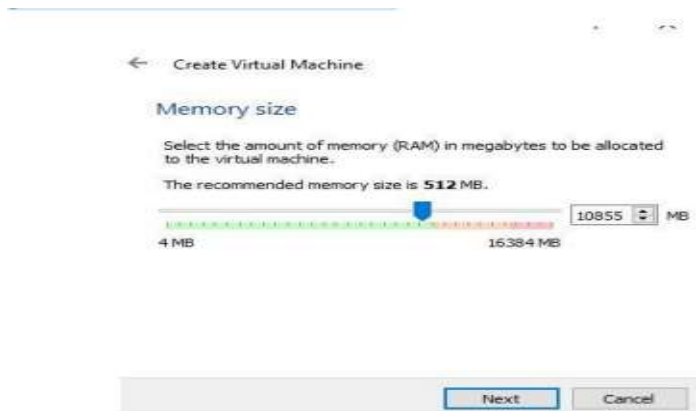
#### Step 5:

**Open the VirtualBox, and create a new VM.**



#### Step 6:

**Configure the RAM for VirtualBox**



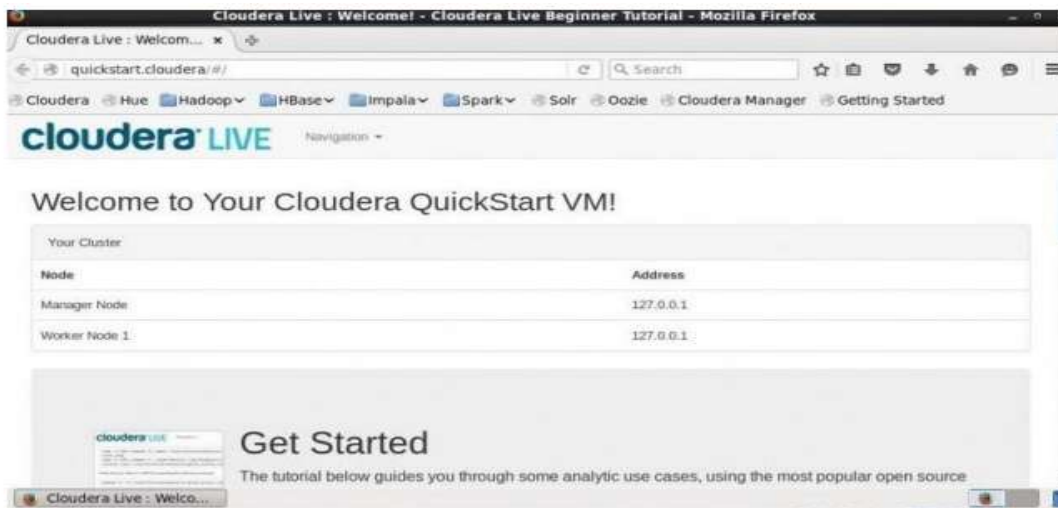
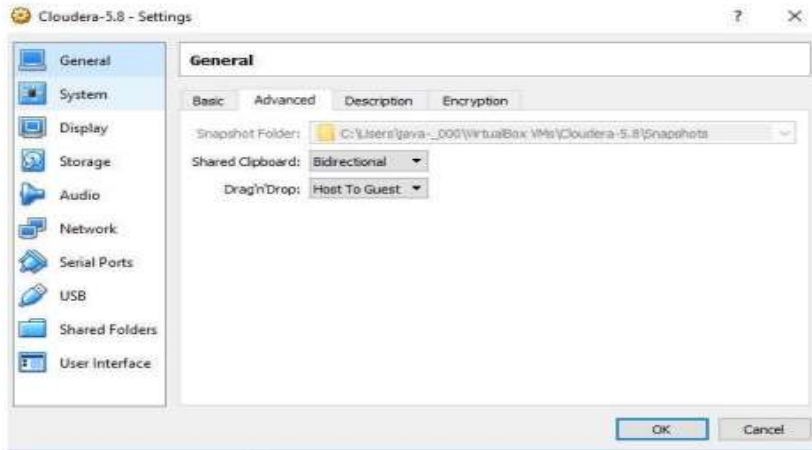
### Step 7:

**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.**



## 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**



## 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...
```

## Step 11:

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

The screenshot displays the Cloudera Manager web interface. The top navigation bar includes links for Cloudera, Hue, Hadoop, HBase, Impala, Spark, Solr, Oozie, Cloudera Manager, and Getting Started. The main header shows 'cloudera MANAGER' with sub-tabs for Clusters, Hosts, Diagnostics, Audits, Charts, and Administration. The 'Home' section is active, showing 'Status', 'All Health Issues', 'Configuration', and 'All Recent Commands'. A dropdown menu for 'Cloudera QuickStart (CDH 5...)' is open, listing various actions: Start, Stop, Restart, Rolling Restart, Deploy Client Configuration, Deploy Kerberos Client Configuration, Upgrade Cluster, Refresh Cluster, Refresh Dynamic Resource Pools, Inspect Hosts in Cluster, Enable Kerberos, and Set up HDFS Data At Rest Encryption. The 'Start' action is highlighted with a green box. An orange arrow points from the 'Cloudera Manager' link in the top navigation bar to the 'Cloudera QuickStart' dropdown menu. The right side of the interface shows 'Charts' for Cluster CPU, Cluster Disk IO, and HDFS IO.