**Downloading and Installing Oracle VM VirtualBox:**

1. Click the following link and download the correct version for your operating system. [https://www.virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads)

   Click [here](https://www.virtualbox.org/wiki/Downloads) for a list of all the supported host operating systems.

2. Double-click the setup file that you downloaded in the previous step and follow the prompts to install.

   Note: During the installation, keep all of the options set to default.

   ** For more detailed instructions on downloading and installing the VirtualBox, take a minute to watch these videos:

   Windows users: [https://www.youtube.com/watch?v=7WdjSBZ794Q](https://www.youtube.com/watch?v=7WdjSBZ794Q)

   Mac users: [https://www.youtube.com/watch?v=65T12TqxjXo](https://www.youtube.com/watch?v=65T12TqxjXo)

3. If you want to change the default folder where the Virtual machines are installed, open the Oracle VM VirtualBox and follow the steps:

   Go to File -> Preferences -> General -> Default Machine Folder -> *Folder of your choice*
Downloading and Installing Cloudera QuickStart VM:

** It requires 64-bit host OS

For windows users: (very similar for Mac users)

1. Go to the following link and download the latest version (CDH 5.3.x) for your platform (VirtualBox or VMware).
   
   [http://www.cloudera.com/content/cloudera/en/downloads/quickstart_vms/cdh-5-3-x.html](http://www.cloudera.com/content/cloudera/en/downloads/quickstart_vms/cdh-5-3-x.html)

2. Extract the zip file and move the folder to the “Default Machine Folder -> Folder of your choice”.

3. Open Oracle VM VirtualBox.

4. Click on the **New** button.

   ![Create Virtual Machine](image)

   **Name and operating system**

   Please choose a descriptive name for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

   - **Name:** Cloudera VM
   - **Type:** Linux
     - **Version:** Red Hat (64 bit)

   Give it a Name of your choice.
   Select **Linux** as **Type** and **Red Hat (64 bit)** as **Version**.
   Click **Next**.

5. Give it at least 4GB of RAM and click **Next** button. If you have more amount of RAM, you can assign more than 4GB. The more, the faster.

   Note: The Host OS requires at least 1GB for the normal functioning. So, be careful not to assign all the RAM to the Virtual Machine.
6. Select the option *Use an existing virtual hard drive file*

Open the `.vmdk` file that you extracted in step-2 and hit *Create*.

You have successfully installed Cloudera QuickStart VM.
Changing some of the settings for better performance and ease of use:

1. Open the Oracle VirtualBox VM in case you have closed it.
2. Select the Cloudera VM and hit Settings.
3. Go to General -> Advanced and change Shared Clipboard to Bidirectional and Drag’n’Drop to Host To Guest.

4. Go to System -> Processor and assign the number of cores that you want your VM to run on.
   
   Note: Don’t assign more number of cores than you physically have on your machine.
   If it’s quad core, assign 4 cores max.
   If it’s dual core, assign 2 cores max.

Go ahead and start the VM.

** For more detailed instructions on downloading and installing the Cloudera QuickStart VM, take a minute to watch these videos:
Windows users: https://www.youtube.com/watch?v=L0IPPC5qeyU
Mac users: https://www.youtube.com/watch?v=BeCtjd86YXo