⭐ Virtual Machine Set Up Guide ⭐

Setting up the Virtual Machine

- You can set up and use Hadoop Spark Virtual Machine in a couple of steps as follows.
- Please make sure you are using a laptop with 8GB RAM running 64-bit operating system Microsoft Windows or Apple Mac OS.

Step-1:
- Download Jigsaw Hadoop VM (`Jigsaw Hadoop VM.ova`) from the following link:

  https://drive.google.com/open?id=1wCa43KSpPlZSi22KVS3jcnTy3iLEx_6C

- OR download Cloudera VM (`cloudera-quickstart-vm-5.13.0-0-virtualbox.ova`) from the following link:

  https://drive.google.com/open?id=1F92vNVCr_xB_L4t_V5nccnb72LNDkKb1

- Download Oracle VM VirtualBox installer file for your operating system (such as Windows or Mac OS) from the link below:

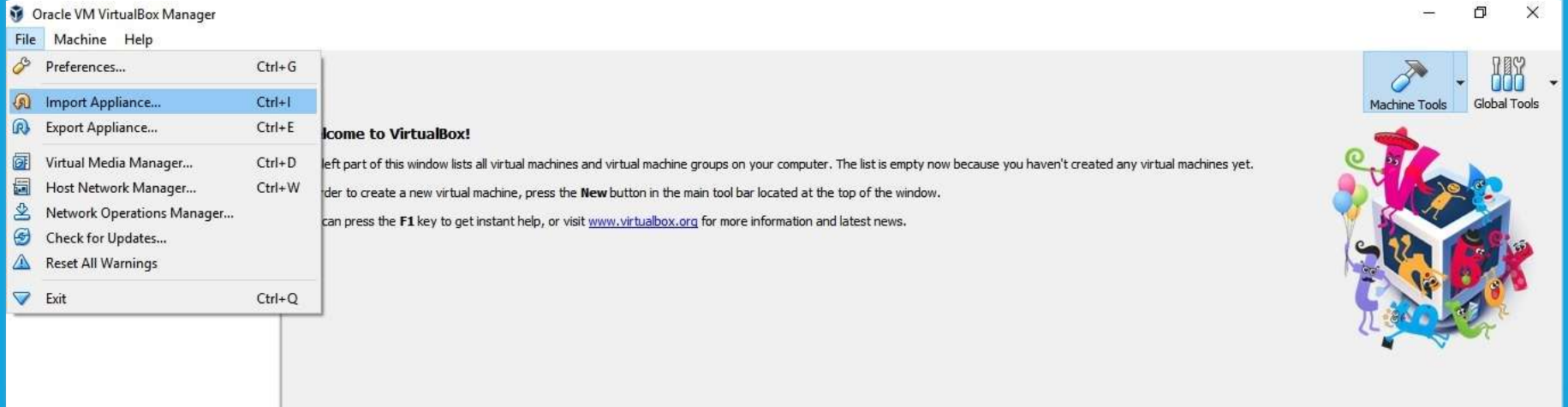 https://www.virtualbox.org/wiki/Downloads

Step-2:

Install Oracle VM VirtualBox using the installer file and following the prompts such as click on Next button accepting the default options.

Oracle VM VirtualBox 5.2.22 Setup ☒

Welcome to the Oracle VM VirtualBox 5.2.22 Setup Wizard

The Setup Wizard will install Oracle VM VirtualBox 5.2.22 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

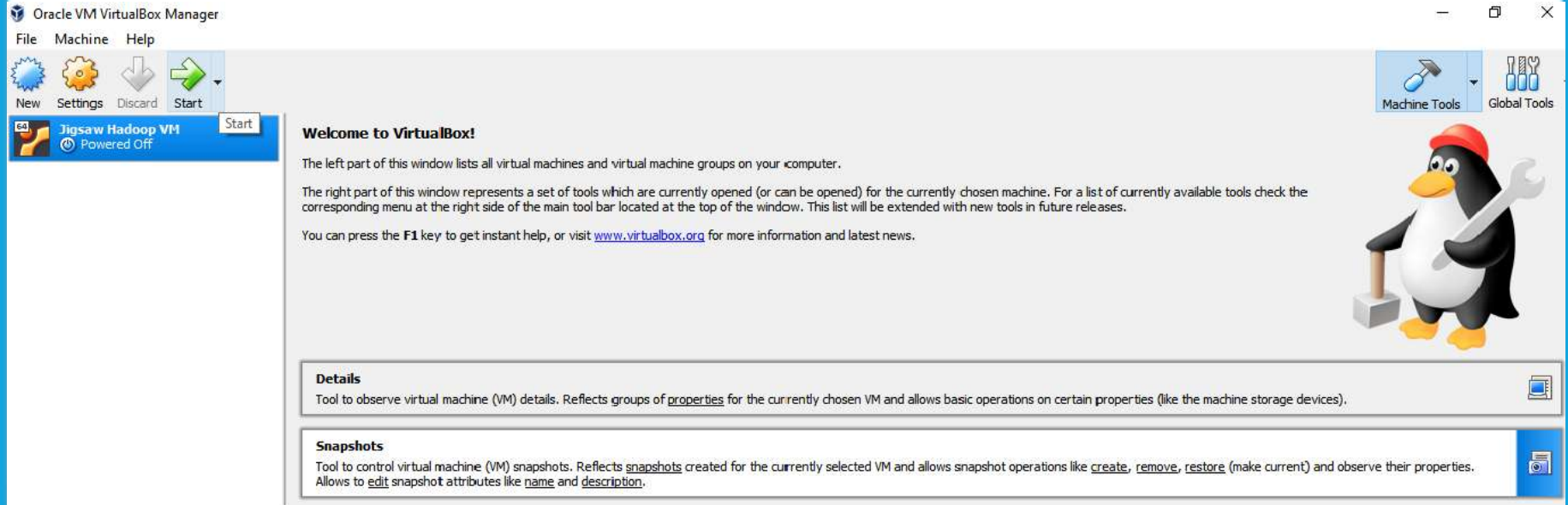Version 5.2.22   [Next >]   [Cancel]

Step-3:

Now run VirtualBox by clicking on its icon or the shortcut.

- Select **Import Appliance** option from **File** dropdown menu of top menu bar.
- Now navigate to the folder where you have unzipped the zip file and select the file **Jigsaw Hadoop VM.ova** to import. Importing may take 5-8 minutes.

Oracle VM VirtualBox Manager

File   Machine   Help

Preferences...	Ctrl+G	
Import Appliance...	Ctrl+I	
Export Appliance...	Ctrl+E	
Virtual Media Manager...	Ctrl+D	
Host Network Manager...	Ctrl+W	
Network Operations Manager...		
Check for Updates...		
Reset All Warnings		
Exit	Ctrl+Q	

Machine Tools   Global Tools

lcome to VirtualBox!

left part of this window lists all virtual machines and virtual machine groups on your computer. The list is empty now because you haven't created any virtual machines yet.

der to create a new virtual machine, press the **New** button in the main tool bar located at the top of the window.

can press the **F1** key to get instant help, or visit www.virtualbox.org for more information and latest news.

Once it is completed, click on the **Start** icon on top menu bar to run the Virtual Machine. VM will get started on another pop-up screen. It will take a few minutes for the VM to get started and come up.

The user id **hduser** will be displayed and you can give the password **hadoop** to login.

This VM runs Linux operating system and has Hadoop 2.x and other required components installed.

Step-4:

To be able to share files between your laptop's host operating system (i.e. MS-Windows or Mac OS) we need to do the following.

If you are using MS-Windows system, then create a new folder named **sharedfolder** (all lowercase letters) in **C:** drive.

Go to the Virtual Machine and open a terminal by clicking on the terminal icon.

At the $ prompt give the command:

sh Downloads/mountsf

As it prompts for the password give the password: **hadoop**

Now you are all set to use the Virtual Machine and the software it has.


```
Terminal
       hduser@hduser-VirtualBox: ~
hduser@hduser-VirtualBox:~$ sh Downloads/mountsf
[sudo] password for hduser:
hduser@hduser-VirtualBox:~$
```
Terminal