# Installing VirtualBox



#### VirtualBox

• VirtualBox is a *cross-platform virtualization software* 



on Windows - Linux, Solaris, Mac OS X



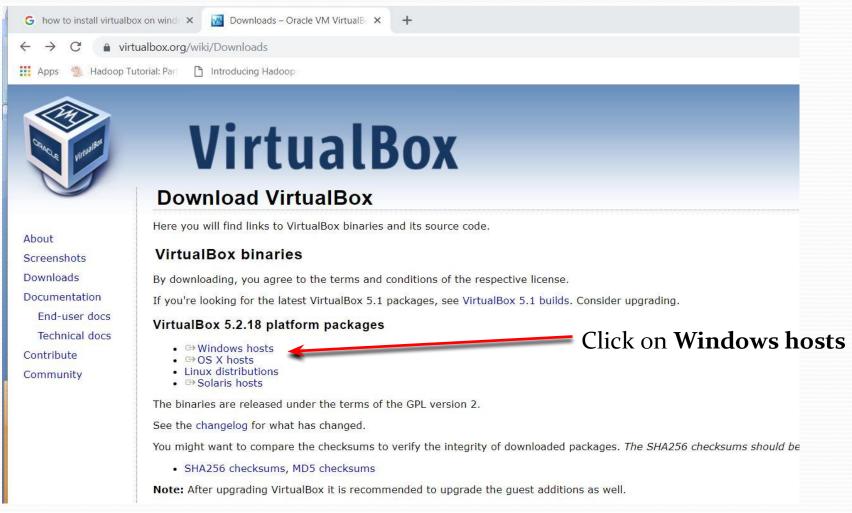
create and run multiple VM's, running different operating systems, on the same computer at the same time.

- Opensource
- Easy to setup

## Windows

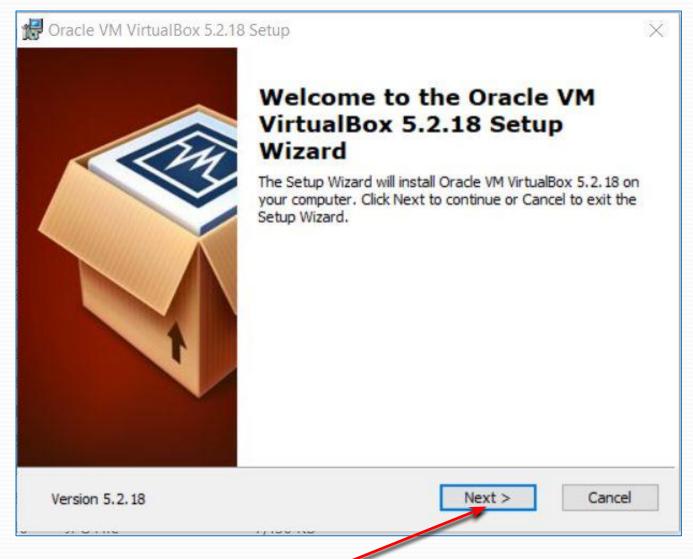
### Oracle VM VirtualBox - Download

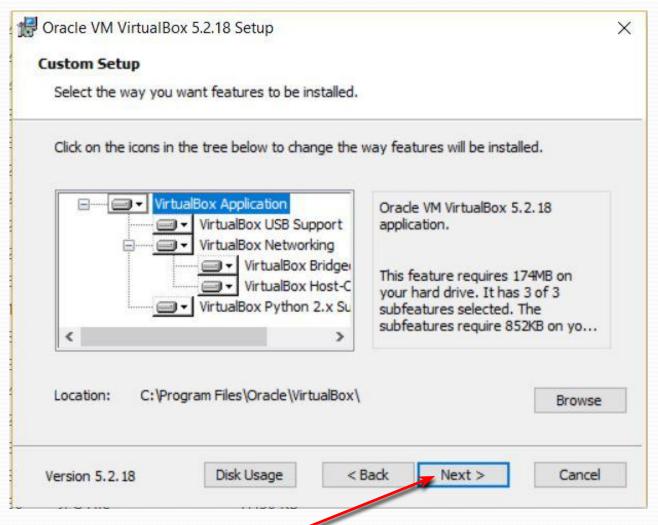
https://www.virtualbox.org/wiki/Downloads

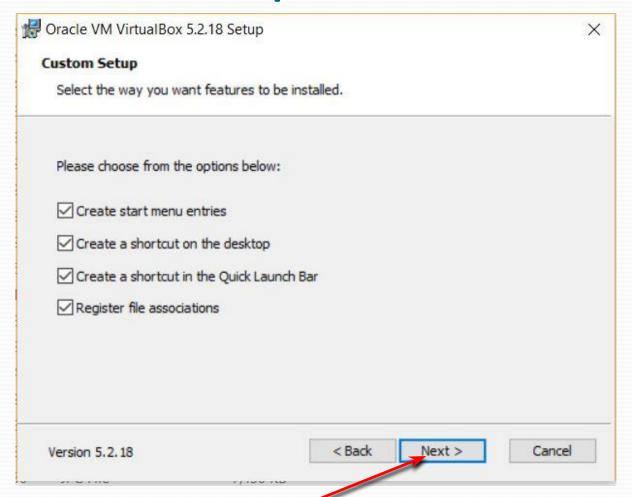


### Installation Steps – Windows 10

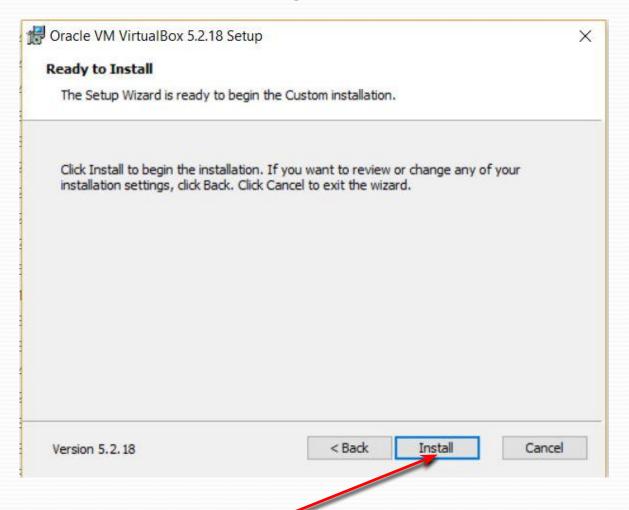
- Steps to follow:
  - 1) Click on 'Windows hosts'
  - 2) The .exe file will start downloading
    - VirtualBox-5.2.18-124319-Win.exe
  - 3) Go to Downloads folder
  - 4) Right click on the .exe file Run as Administrator

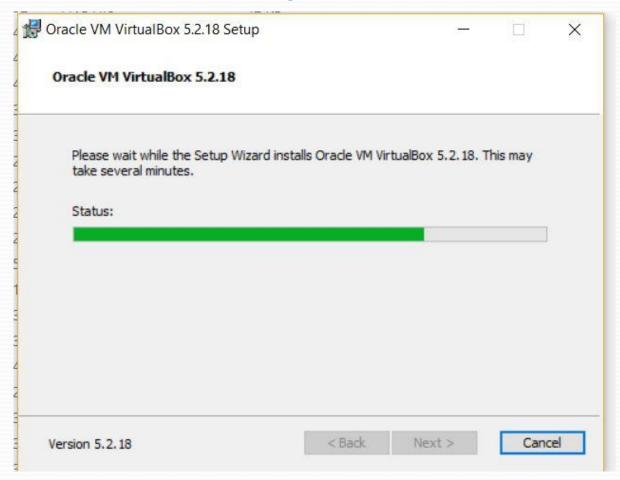






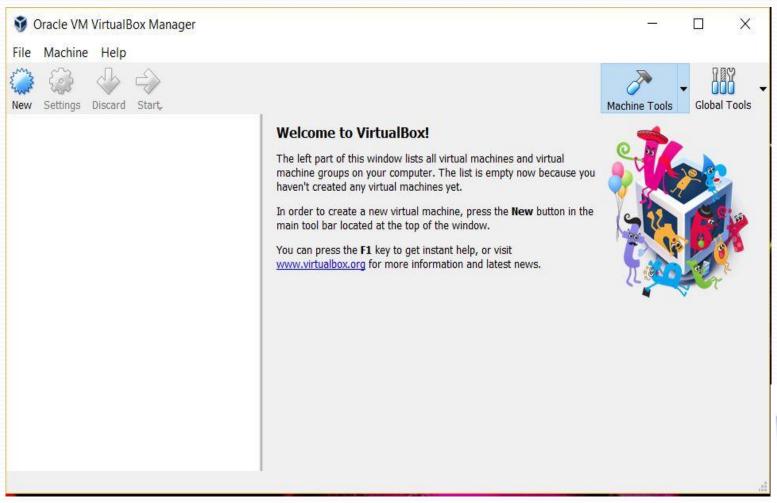








#### Oracle VM VirtualBox – Windows 10

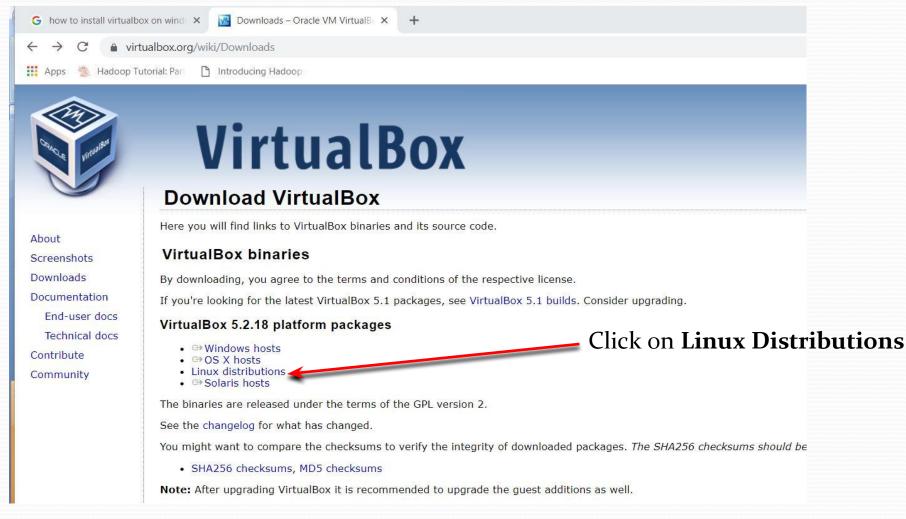




## CentOS

### Oracle VM VirtualBox - Download

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

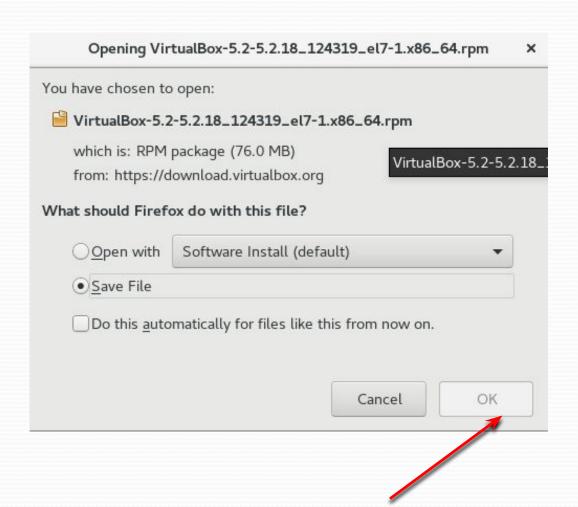


#### CentOS 7

#### https://www.virtualbox.org/wiki/Linux\_Downloads



#### **Installation Steps - CentOS 7**



- 1) Open the Terminal
  - Application(top-left corner) → Terminal

- 2) Check the current directory
  - \$ pwd
    - For example,
      - Output: /home/dbpsysads

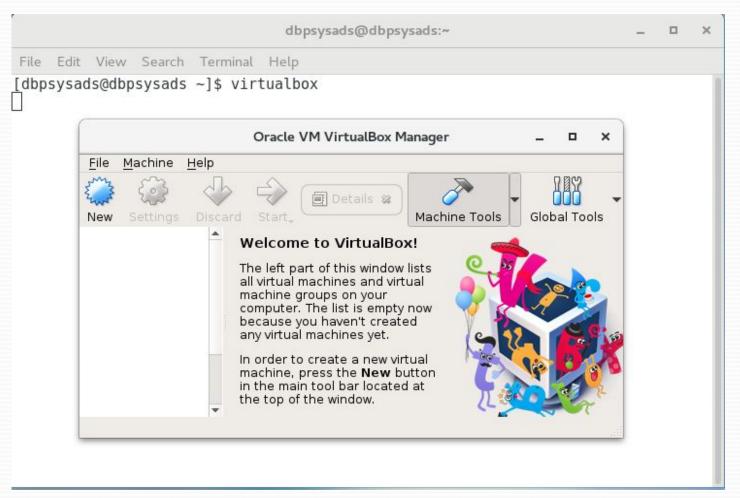
- 3) Move to Downloads folder
  - \$ cd Downloads/

- 4) Command to install the package .rpm
  - \$ sudo rpm -ivh VirtualBox-5.2\_5.2.18-124319\_el7-1.x86\_64.rpm

```
dbpsysads@dbpsysads:~/Downloads
   Edit View Search Terminal Help
[dbpsysads@dbpsysads ~]$ pwd
/home/dbpsysads
[dbpsysads@dbpsysads ~]$ cd Downloads/
[dbpsysads@dbpsysads Downloads]$ ls
ubuntu-16.04.5-desktop-amd64.iso VirtualBox-5.2-5.2.18_124319_el7-1.x86_64.rpm
[dbpsysads@dbpsysads Downloads]$ sudo rpm -ivh VirtualBox-5.2-5.2.18 124319 el7-
1.x86 64.rpm
[sudo] password for dbpsysads:
warning: VirtualBox-5.2-5.2.18 124319 el7-1.x86 64.rpm: Header V4 DSA/SHA1 Signa
ture, key ID 98ab5139: NOKEY
Preparing...
Updating / installing...
  [100%]
Creating group 'vboxusers'. VM users must be member of that group!
[dbpsysads@dbpsysads Downloads]$
```

#### Oracle VM VirtualBox – CentOS 7

5) \$ virtualbox



## Ubuntu

### Installation Steps – Ubuntu 16.04

- 1) Open the Terminal
  - Keyboard Shortcut → Ctrl + Alt + T
- 2) Add VirtualBox Repository Key
  - \$ wget -q https://www.virtualbox.org/download/oracle\_vbox\_2016.asc -O- | sudo apt-key add -
  - \$ wget -q https://www.virtualbox.org/download/oracle\_vbox.asc -O- | sudo apt-key add -

3) Add VirtualBox Repository

dbpsysads@dbpsysads-ThinkPad-T440:~\$ sudo apt-get update

sudo sh -c 'echo "deb <a href="http://download.virtualbox.org/virtualbox/debian">http://download.virtualbox.org/virtualbox/debian</a> \$(lsb\_release -sc) contrib" >> /etc/apt/sources.list.d/virtualbox.list'

```
[sudo] password for dbpsysads:
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu xenial InRelease
Get:3 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease [107 kB]
Fetched 323 kB in 2s (159 kB/s)
Reading package lists... Done
dbpsysads@dbpsysads-ThinkPad-T440:~$ wget -q https://www.virtualbox.org/download/oracle_vbox_2016.asc -0- | sudo apt-key add -
[sudo] password for dbpsysads:
OK
dbpsysads@dbpsysads-ThinkPad-T440:~$ wget -q https://www.virtualbox.org/download/oracle_vbox.asc -0- | sudo apt-key add -
OK
dbpsysads@dbpsysads-ThinkPad-T440:~$ sudo sh -c 'echo "deb http://download.virtualbox.org/virtualbox/debian $(lsb_release -sc) contrib" >> /etc
/apt/sources.list.d/virtualbox.list'
dbpsysads@dbpsysads-ThinkPad-T440:~$ sudo apt update
```

- 4) \$ sudo apt-get update
- 5) \$ sudo apt-get -y install gcc make linux-headers-\$(uname -r) dkms
- 6) \$ sudo apt-get update

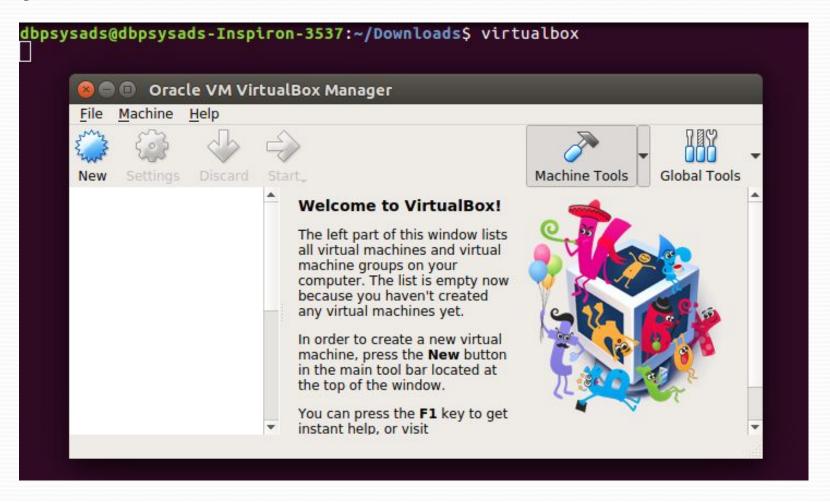
```
dbpsysads@dbpsysads-ThinkPad-T440:~$ sudo apt-get -y install gcc make linux-headers-$(uname -r) dkms
Reading package lists... Done
Building dependency tree
Reading state information... Done
gcc is already the newest version (4:5.3.1-1ubuntu1).
make is already the newest version (4.1-6).
linux-headers-4.15.0-29-generic is already the newest version (4.15.0-29.31\sim16.04.1).
linux-headers-4.15.0-29-generic set to manually installed.
The following NEW packages will be installed:
  dkms
O upgraded, 1 newly installed, O to remove and 85 not upgraded.
Need to get 66.3 kB of archives.
After this operation, 265 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu xenial-updates/main amd64 dkms all 2.2.0.3-2ubuntu11.5 [66.3 kB]
Fetched 66.3 kB in 0s (75.7 kB/s)
Selecting previously unselected package dkms.
(Reading database ... 177097 files and directories currently installed.)
Preparing to unpack .../dkms 2.2.0.3-2ubuntu11.5 all.deb ...
Unpacking dkms (2.2.0.3-2ubuntu11.5) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up dkms (2.2.0.3-2ubuntu11.5) ...
dbpsvsads@dbpsvsads-ThinkPad-T440:~S sudo apt update
```

\$ sudo apt-get install virtualbox-5.2

```
dbpsysads@dbpsysads-ThinkPad-T440:~$ sudo apt-get install virtualbox-5.2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 libsdl-ttf2.0-0 libsdl1.2debian
The following NEW packages will be installed:
 libsdl-ttf2.0-0 libsdl1.2debian virtualbox-5.2
 upgraded, 3 newly installed, 0 to remove and 85 not upgraded.
Need to get 73.7 MB of archives.
After this operation, 188 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu xenial/main amd64 libsdl1.2debian amd64 1.2.15+dfs
Get:2 http://download.virtualbox.org/virtualbox/debian xenial/contrib amd64 virtualbox-5.2
Get:3 http://in.archive.ubuntu.com/ubuntu xenial/universe amd64 libsdl-ttf2.0-0 amd64 2.0.11
Fetched 73.7 MB in 44s (1,651 kB/s)
```

#### Oracle VM VirtualBox - Ubuntu16.04

• 5) \$ virtualbox



## Thank You!