Install Kali Linux

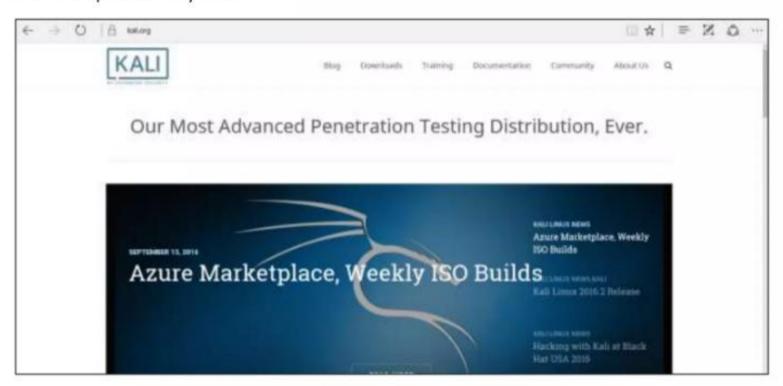




Kali Linux is one of the best security packages of an ethical hacker, containing a set of tools divided by the categories. It is an open source and its official webpage is https://www.kali.org.

Generally, Kali Linux can be installed in a machine as an Operating System, as a virtual machine which we will discuss in the following section. Installing Kali Linux is a practical option as it provides more options to work and combine the tools. You can also create a live boot CD or USB. All this can be found in the following link: https://www.kali.org/downloads/

BackTrack was the old version of Kali Linux distribution. The latest release is Kali 2016.1 and it is updated very often.



To install Kali Linux -

- First, we will download the Virtual box and install it.
- Later, we will download and install Kali Linux distribution.

Download and Install the Virtual Box

A Virtual Box is particularly useful when you want to test something on Kali Linux that you are unsure of. Running Kali Linux on a Virtual Box is safe when you want to experiment with unknown packages or when you want to test a code.

With the help of a Virtual Box, you can install Kali Linux on your system (not directly in your hard disk) alongside your primary OS which can MAC or Windows or another flavor of Linux.

Let's understand how you can download and install the Virtual Box on your system.

Step 1: To download, go to https://www.virtualbox.org/wiki/Downloads. Depending on your operating system, select the right package. In this case, it will be the first one for Windows as shown in the following screenshot.

VirtualBox

Download VirtualBox

Here, you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

- . VirtualBox platform packages. The binaries are released under the terms of the GPL version 2.
 - VirtualBox 5.1.2 for Windows hosts *x86/amd64
 - VirtualBox 5.1.2 for OS X hosts amd64
 - VirtualBox 5.1.2 for Linux hosts
 - VirtualBox 5.1.2 for Solaris hosts amd64
- VirtualBox 5.1.2 Oracle VM VirtualBox Extension Pack All supported platforms

Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP and PXE boot for Intel cards. See this chapter from the User Manual for an introduct Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL).

Please Install the extension pack with the same version as your installed version of VirtualBox:

If you are using VirtualBox 5.0.26, please download the extension pack in here.

If you are using VirtualBox 4.3.38, please download the extension pack - here.

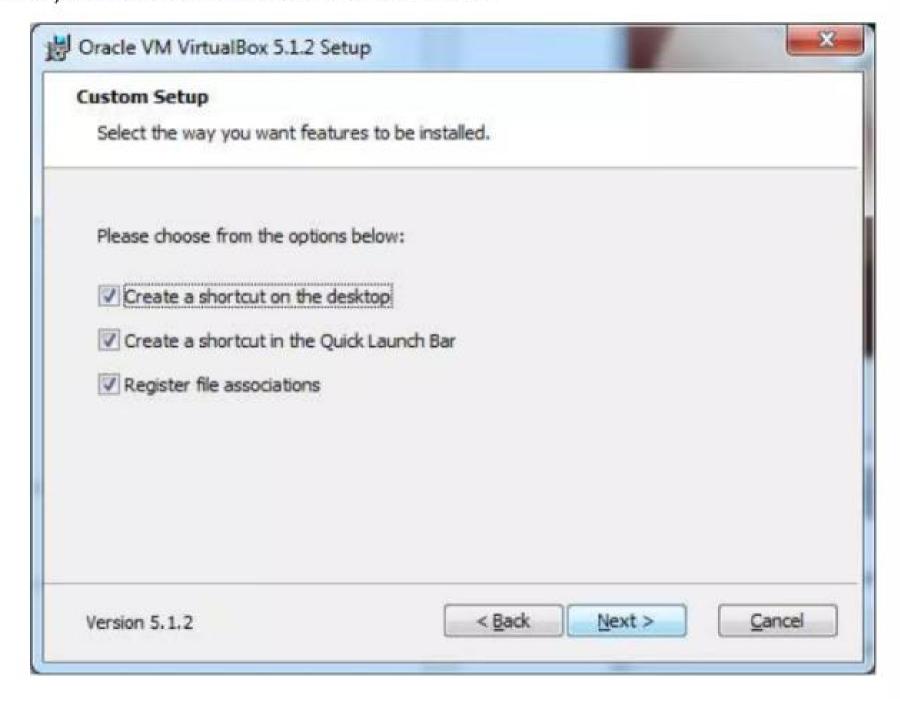
Step 2: Click Next.



Step 3: The next page will give you options to choose the location where you want install the application. In this case, let us leave it as default and click **Next**.



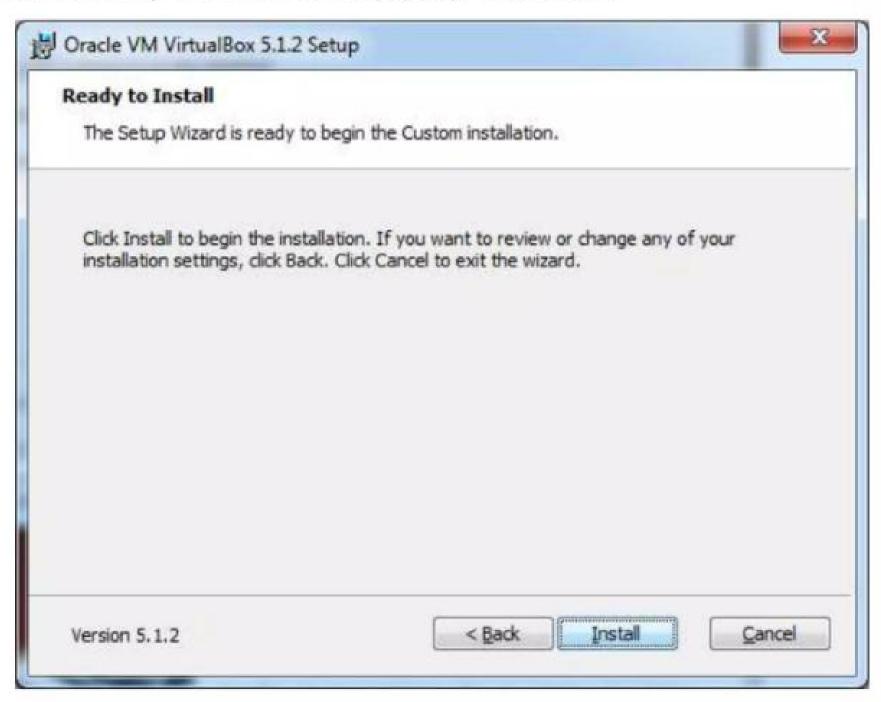
Step 4: Click **Next** and the following **Custom Setup** screenshot pops up. Select the features you want to be installed and click Next.



Step 5: Click Yes to proceed with the installation.



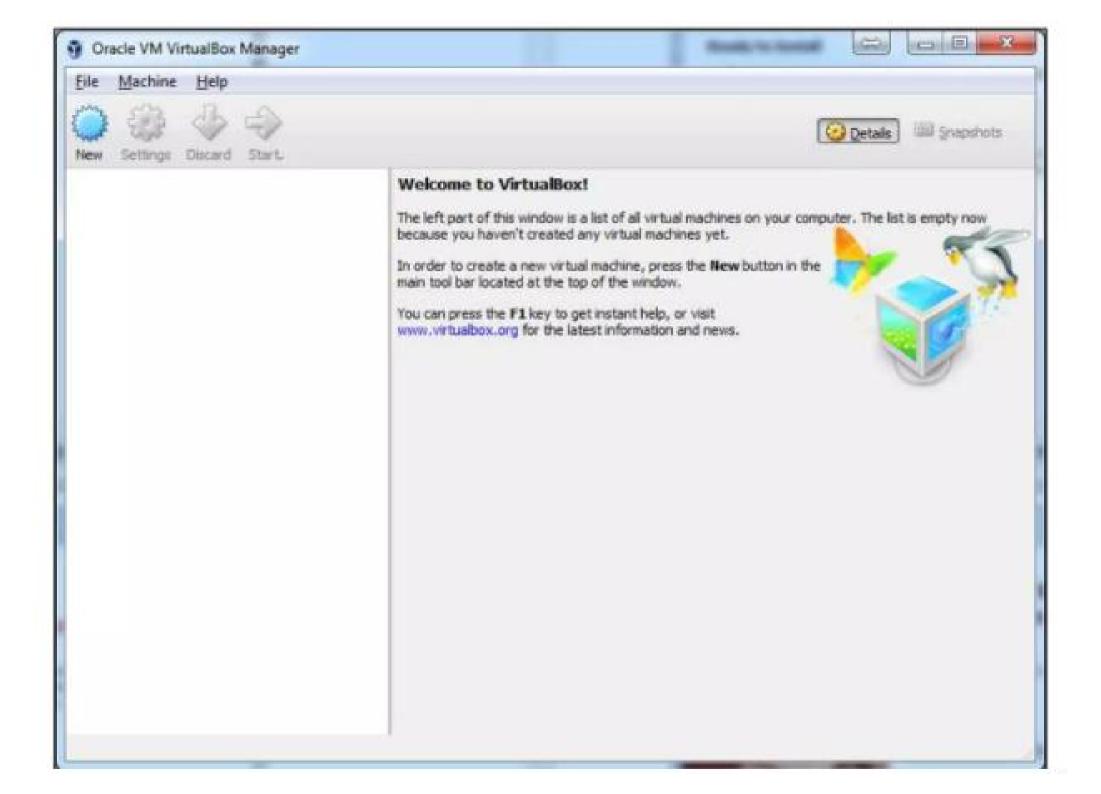
Step 6: The Ready to Install screen pops up. Click Install.



Step 7: Click the Finish button.



The Virtual Box application will now open as shown in the following screenshot. Now we are ready to install the rest of the hosts for this manual and this is also recommended for professional usage.



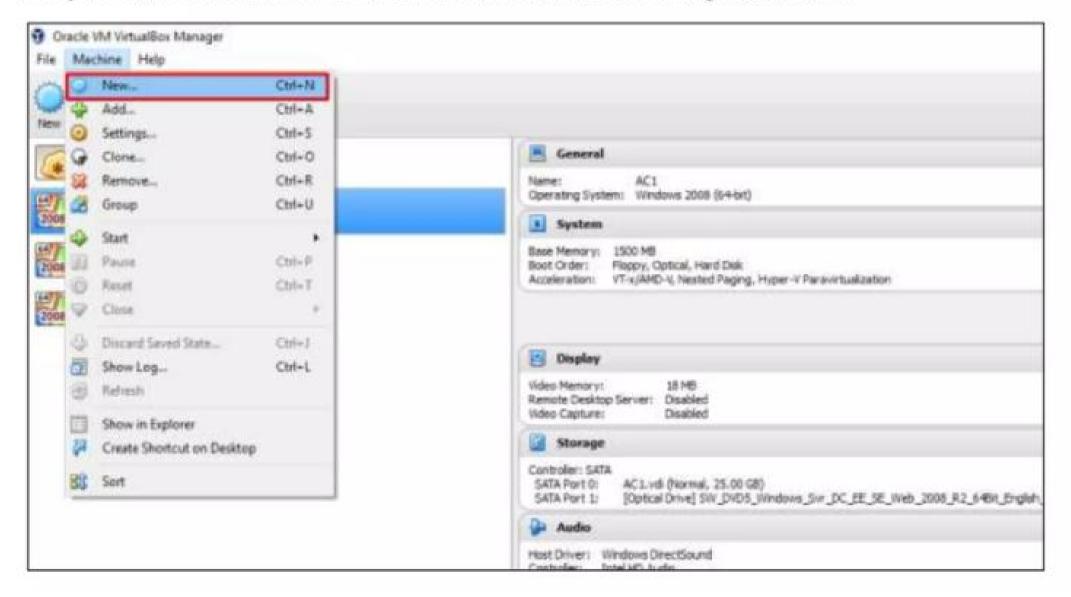
Install Kali Linux

Now that we have successfully installed the Virtual Box, let's move on to the next step and install Kali Linux.

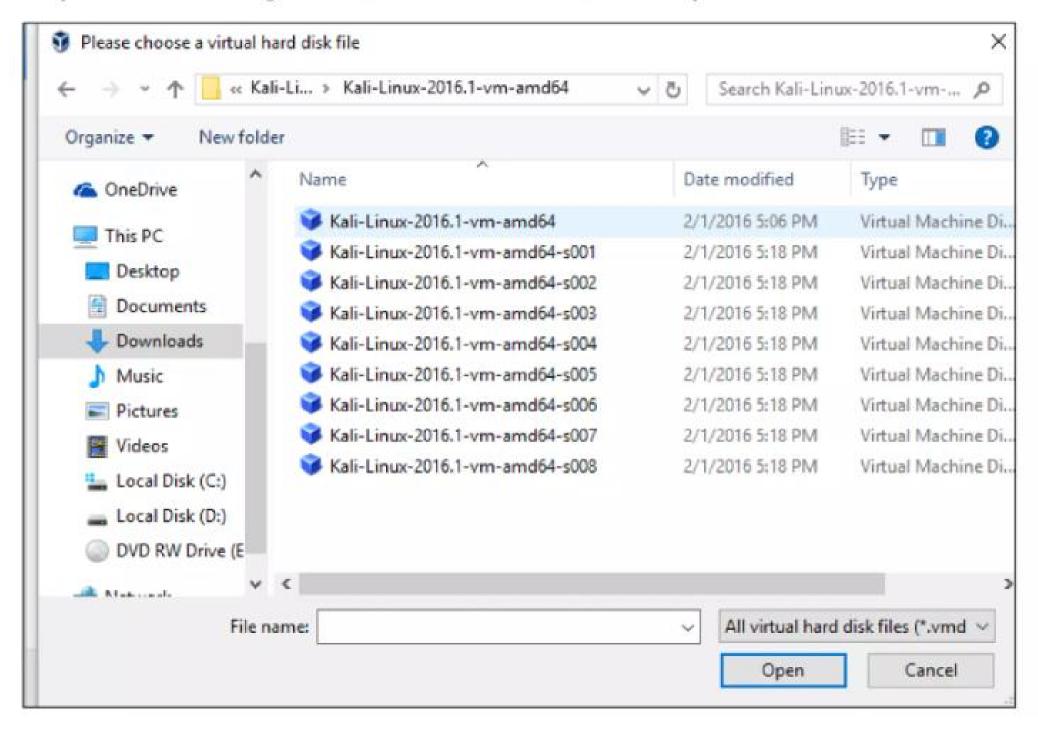
Step 1: Download the Kali Linux package from its official website: https://www.kali.org/downloads/



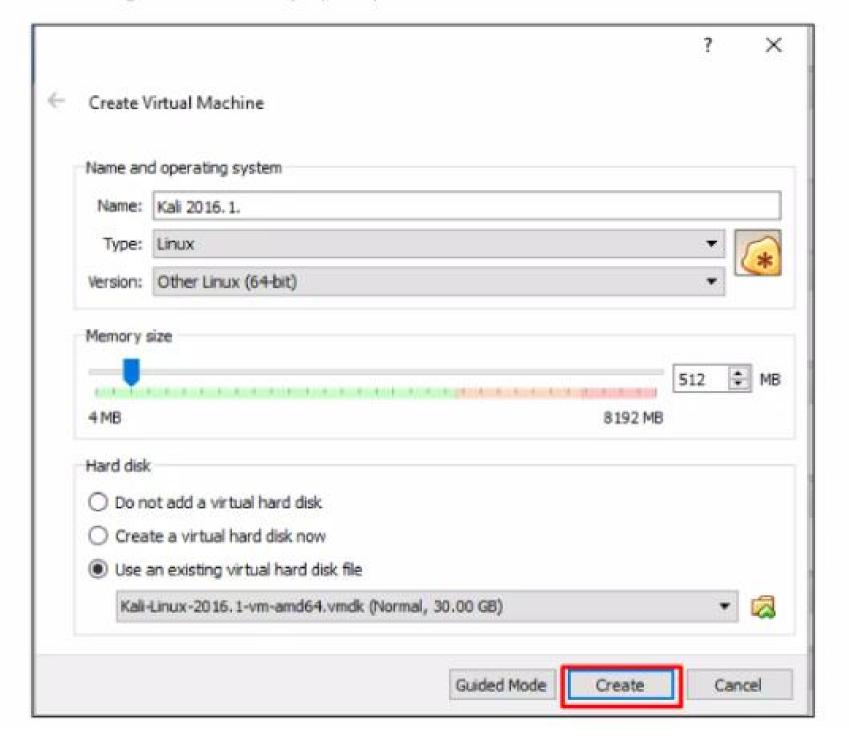
Step 2: Click VirtualBox -> New as shown in the following screenshot.



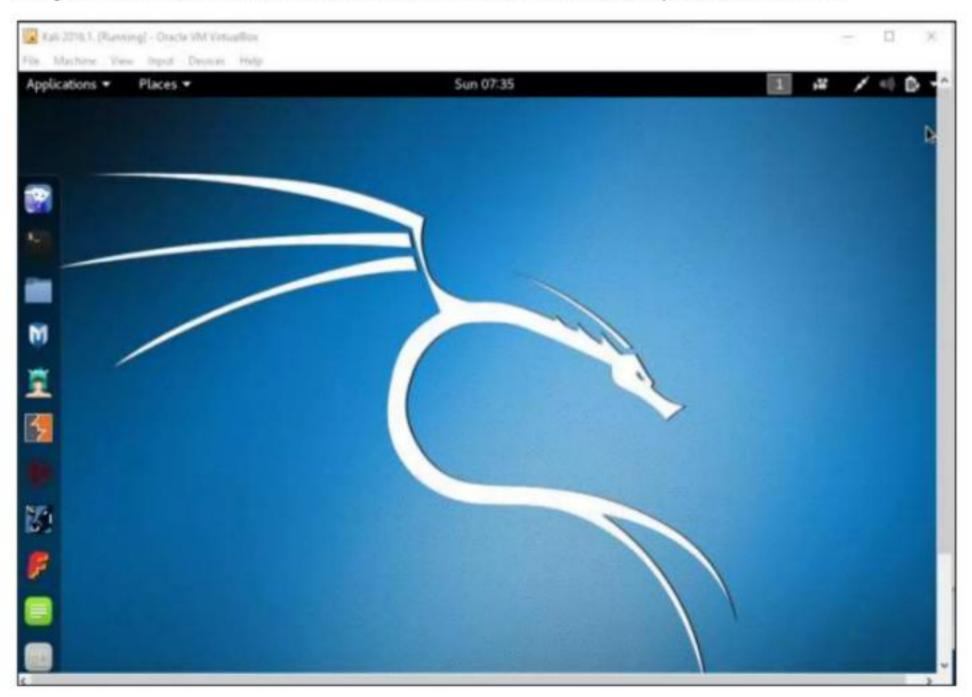
Step 3: Choose the right virtual hard disk file and click Open.



Step 4: The following screenshot pops up. Click the Create button.



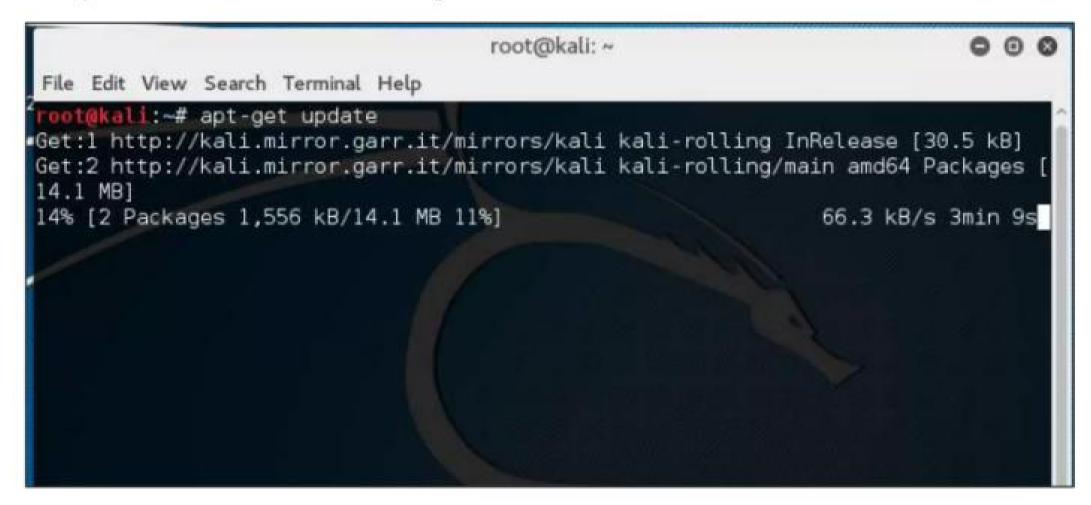
Step 5: Start Kali OS. The default username is root and the password is toor.

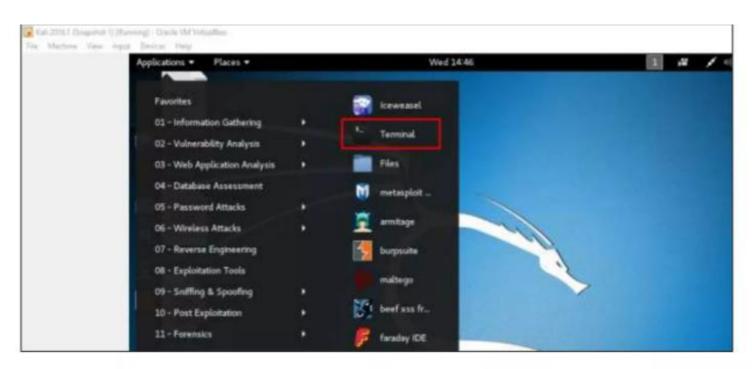


Update Kali

It is important to keep updating Kali Linux and its tools to the new versions, to remain functional. Following are the steps to update Kali.

Step 1: Go to Application -> Terminal. Then, type "apt-get update" and the update will take place as shown in the following screenshot.

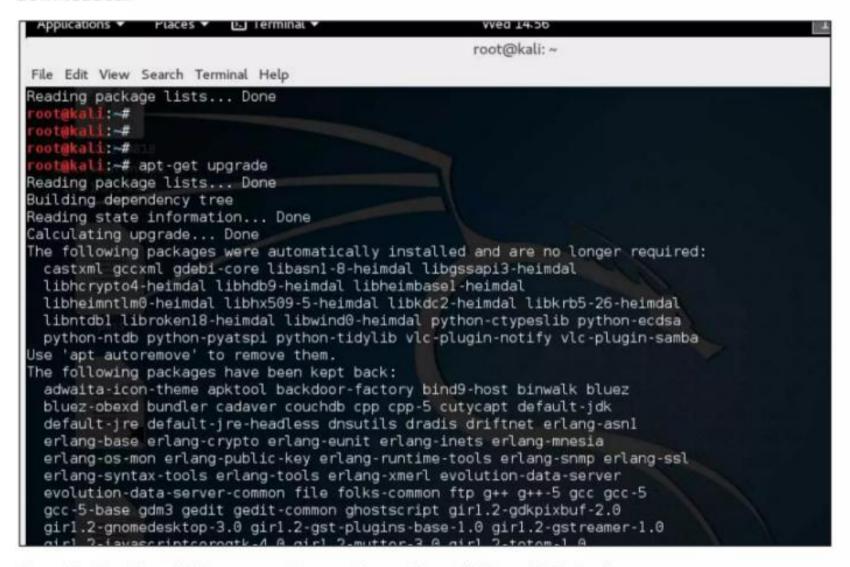




Step 2: Now to upgrade the tools, type "apt-get upgrade" and the new packages will be downloaded.



Step 2: Now to upgrade the tools, type "apt-get upgrade" and the new packages will be downloaded.



Step 3: It will ask if you want to continue. Type "Y" and "Enter".

```
zsh-common
1264 upgraded, 0 newly installed, 0 to remove and 480 not upgraded.
Need to get 955 MB of archives.
After this operation, 162 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Step 4: To upgrade to a newer version of Operating System, type "apt-get distupgrade".

```
mtskali;-# apt-get dist-upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
alculating upgrade... Done
he following packages were automatically installed and are no longer required:
 caribou-antler castxml creepy dff gccxml gdebi-core girl.2-clutter-gst-2.0 girl.2-evince-3.0 girl.2-gkbd-3.
 dirl.2-packagekitglib-1.8 dirl.2-xkl-1.8 gnome-icon-theme-symbolic gnome-packagekit gnome-packagekit-data
 gtk2-engines gucharmap hwdata libapache2-mod-php5 libasn1-8-heimdal libavcodec-ffmpeg56 libavdevice-ffmpeg5
 libavfilter-ffmpeg5 libavformat-ffmpeg56 libavresample-ffmpeg2 libavutil-ffmpeg54 libbasicusageenvironment8
 libbind9-98 libboost-filesystem1.58.0 libboost-python1.58.0 libboost-python1.61.0 libboost-system1.58.0
 libboost-thread1.58.8 libcamel-1.2-54 libchronaprint0 libclutter-gst-2.6-8 libcrypto++9v5 libcurses-perl
 libcurses-ui-perl libdns100 libedataserver-1.2-21 libexporter-tiny-perl libfftw3-single3 libgdict-1.0-9
 libalew1.13 libarilo-8.2-1 libaroupsock1 libassapi3-heimdal libatkalext1 libaucharmap-2-98-7
 libhcrypto4-heimdal libhdb9-heimdal libheimbasel-heimdal libheimntlmG-heimdal libhunspell-1.3-8
 libhx509-5-heimdal libicalla libilmbase6v5 libisc95 libisccc90 libisccfg90 libjasper1 libjpeg9
 libkdc2-heimdal libkrb5-26-heimdal liblist-moreutils-perl liblivemedia23 libllvm3.7 liblouis9 liblwres98
 libra-glib-vpnl libradbl libonig2 libopenexr6v5 libopenipeg5 libpffl libpgm-5.1-8 libphonon4 libcoppler57
 libpostproc-ffmpeq53 libpth29 libqdbm14 libqmi-qlib1 libquvi-scripts libquvi7 libradare2-8.9.9 libreqfi8
 libroken18-heimdal libsodium13 libswresample-ffmpeg1 libswscale-ffmpeg3 libtask-weaken-perl libtre5 libtrio2
  libusageenvironmentl libvpx3 libwebp5 libwebpdemux1 libwebpmux1 libwebrtc-audio-processing-8 libwildmidil
```