Instruction for Kali Linux installation

Note: It is suggested to install Kali Linux in Virtual environment. It works on privileged instructions, so better you install it in virtual box (or in any virtual environment).

Step 1:

Download the Virtual Box from https://www.virtualbox.org/wiki/Downloads

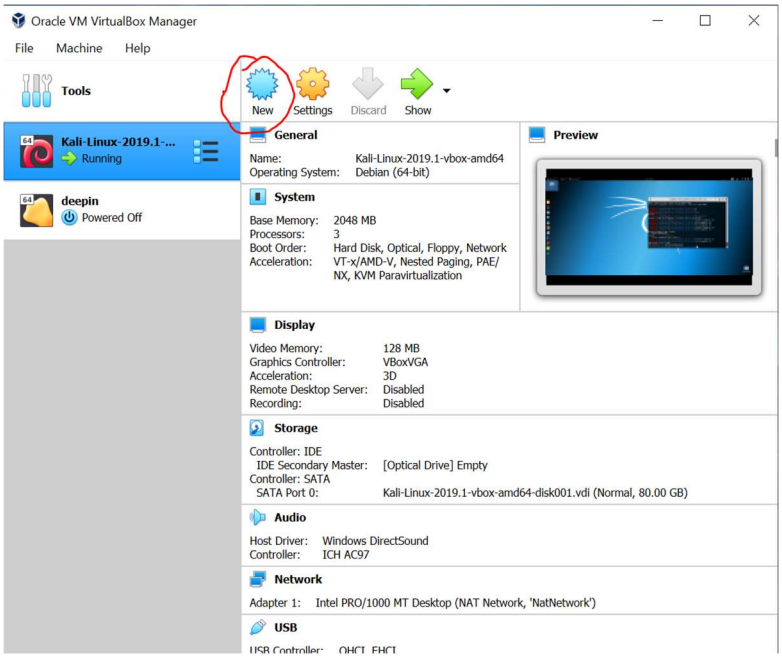
Also download the extension pack.

Kali disc image: https://cdimage.kali.org/kali-2020.3/kali-linux-2020.3-installer-amd64.iso

Step 2:

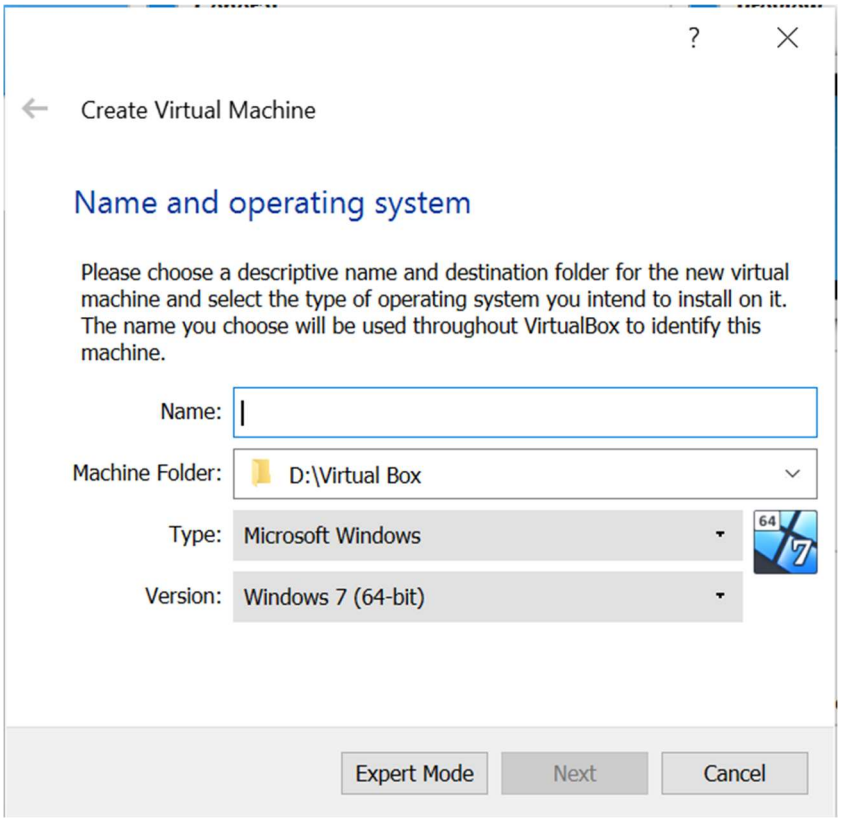
Install the Virtual box and then the Extension pack.

Step 3:



After installation of VBox click on new.

Step 4:



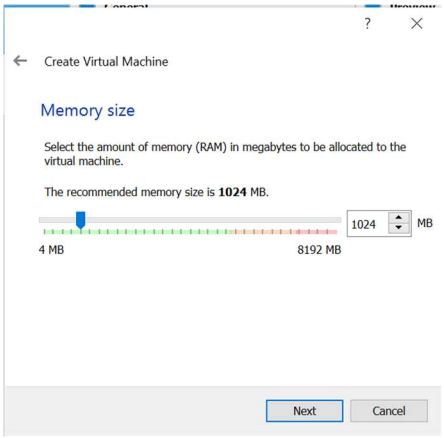
Give the name as you wish.

Specify the folder where you want to keep the machine.

Select the type as LINUX.

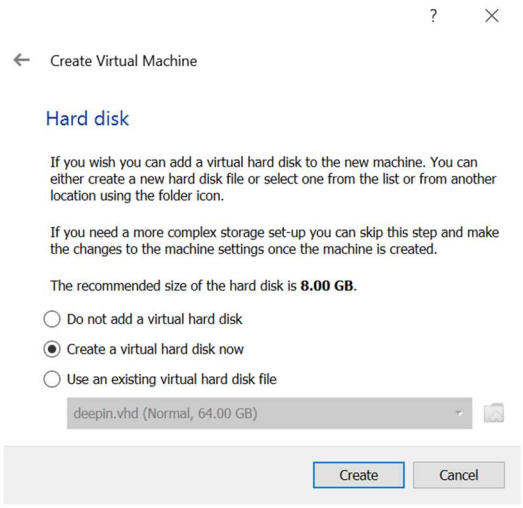
Select the Version as Debian 64.

Step 5:



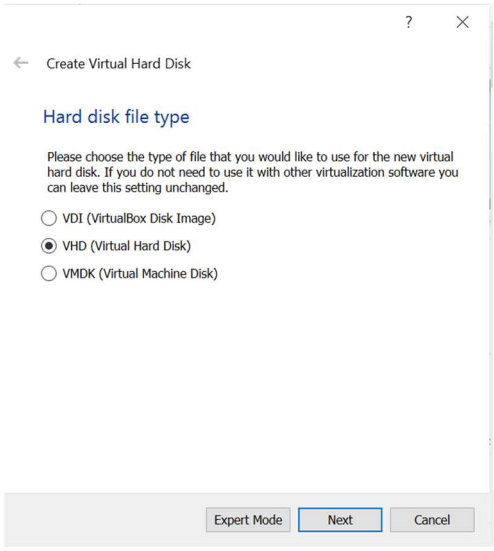
Specify the memory(RAM) at least minimum of 1.5GB.

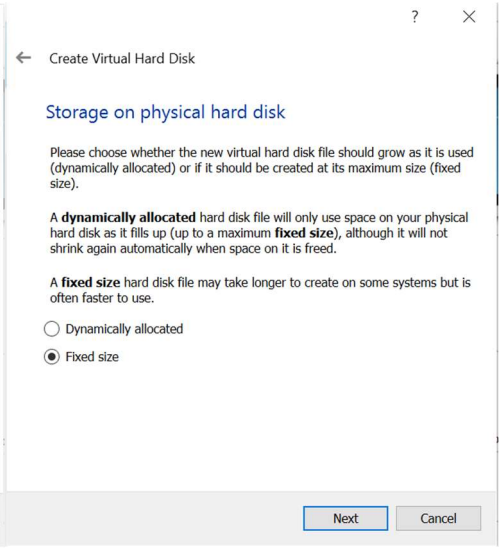
Step 6:

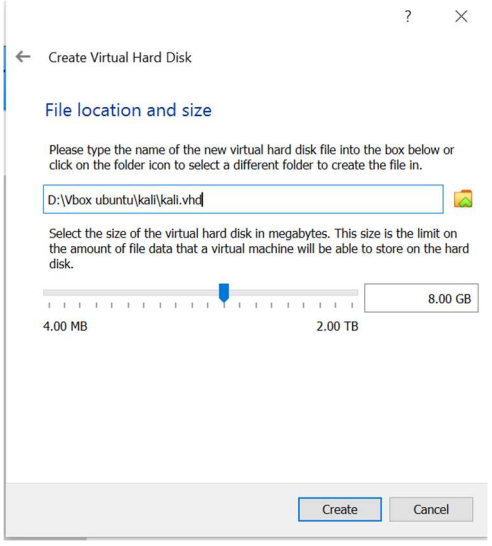


Select on create virtual hard disk.

Step 7:



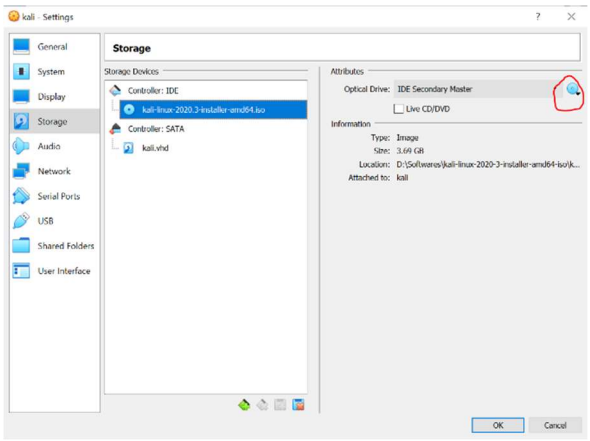




Create a disk of at least minimum of 30 GB.

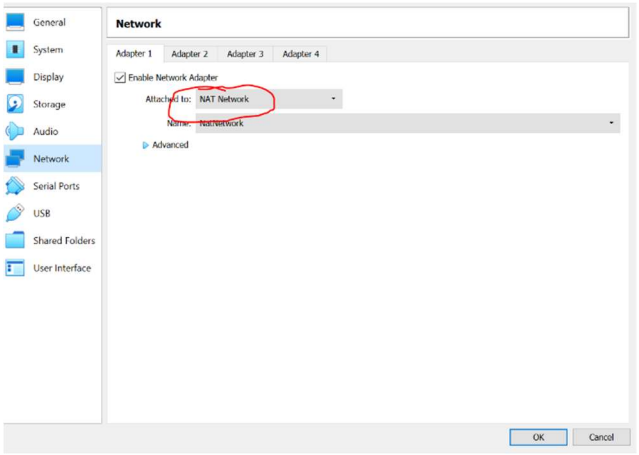
Wait for sometime till the disk is created.

Then select the disk image.



Step 8:

Click on network and change it to NAT network (Mandatory).

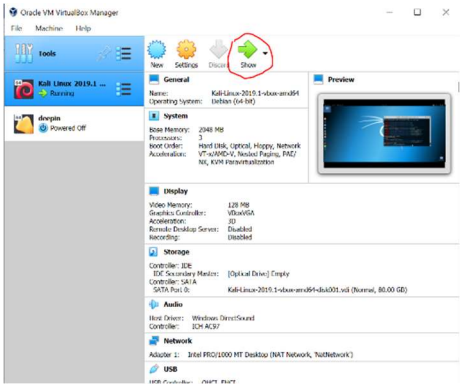


Step 9:

Click on start and then on the install, follow the instructions as it shows.

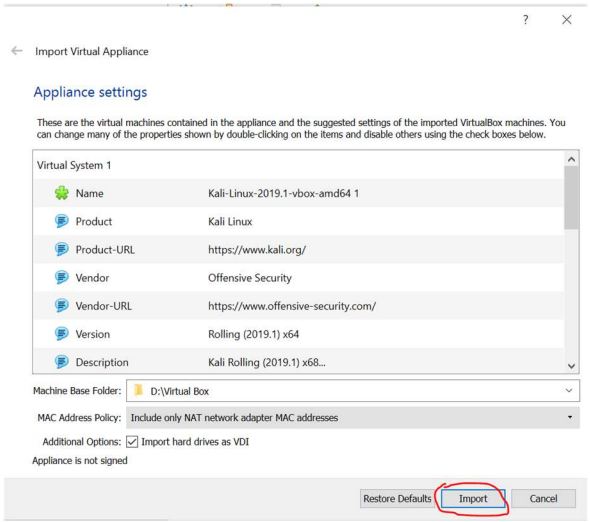
For reference see the video (kali version might differ)

https://www.youtube.com/watch?v=V_Payl5FlgQ



If you are downloading from the drive link then you can just download the Virtual box and extension and then double click on the downloaded file.

It will pop up the import window. Select the desired folder and click on import.



Once the import is done click on settings and change the network to NAT network.

Increase the memory as per your requirement and then click on start.

It will boot up your kali.

hit enter.

Username: root password: toor

Installation Of NS2

1: In the desktop of kali linux create a folder named NS2.

2:Download the ns2 zip file
http://sourceforge.net/projects/nsnam/files/allinone/ns-allinone-2.35/ns-allinone-2.35.tar.gz/download

3: Extract the contents to the desktop folder.

4: Go to the folder using terminal.

➔ cd Desktop
➔ cd NS2
➔ cd ns-allinone-2.35
➔ ./install
➔ gedit ~/.bashrc

➔ Now an editor window appears,please copy and paste the follwing codes in the end of the text file (note that '/home/abhiram/Desktop/ns-allinone-2.35/octl-1.14' in each line in the below code should be replaced with your location where the 'ns-allinone-2.35.tar.gz'file is extracted)

```
# LD_LIBRARY_PATH
OTCL_LIB=/home/abhiram/Desktop/ns-allinone-2.35/otcl-1.14
NS2_LIB=/home/abhiram/Desktop/ns-allinone-2.35/lib
X11_LIB=/usr/X11R6/lib
USR_LOCAL_LIB=/usr/local/lib
export
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$OTCL_LIB:$NS2_LIB:$X11_LIB:$USR_LOC
AL_LIB

# TCL_LIBRARY
TCL_LIB=/home/abhiram/Desktop/ns-allinone-2.35/tcl8.5.10/library
USR_LIB=/usr/lib
export TCL_LIBRARY=$TCL_LIB:$USR_LIB
```

```
# PATH
XGRAPH=/home/abhiram/Desktop/ns-allinone-
2.35/bin:/home/abhiram/Desktop/ns-allinone-
2.35/tcl8.5.10/unix:/home/abhiram/Desktop/ns-allinone-2.35/tk8.5.10/unix
NS=/home/abhiram/Desktop/ns-allinone-2.35/ns-2.35/
NAM=/home/abhiram/Desktop/ns-allinone-2.35/nam-1.15/
PATH=$PATH:$XGRAPH:$NS:$NAM
```

➔ Save and close the text editor and then type the following command on the terminal

```
source ~/.bashrc
```

➔ Close the terminal window and start a new terminal window and now change the directory to ns-2.35 and validate ns-2.35 by exicuting the following command (it takes 30 to 45 minutes)

```
cd ns-2.35
./validate
```

➔ If the installation is successful, then you will be able to see % at the command prompt while typing the following command

```
ns
```

➔ Now type

```
exit
```

Successfully Installed!