# Installing VirtualBox on Ubuntu 22.04 and Creating a Debian 12 Virtual Machine

Tazmeen Afroz Roll No: 22p-9252

August 26, 2024

### Instructor: Saad Ahmed

## 1 Step 1: Install VirtualBox

Before installation, update the package repository with the following command:

sudo apt update

Next, download and install VirtualBox by running:

sudo apt install virtualbox

```
(base) expecembafror: 5 sudu apt update
[sudu] password for tazreen:
Htt:1 https://packages.nicrosoft.com/repos/code stable InRelease
Htt:2 https://packages.nicrosoft.com/repos/code stable InRelease
Htt:3 https://jackages.nicrosoft.com/repos/code stable InRelease
Htt:3 https://jackages.nicrosoft.com/ubuntu_jampy_updates [128 k8]
Get:4 http://archive.ubuntu.com/ubuntu_jampy.packages InRelease
Htt:6 http://archive.ubuntu.com/ubuntu_jampy.packages InRelease
Get:4 http://archive.ubuntu.com/ubuntu_jampy.backaports_InRelease
Get:7 http://archive.ubuntu.com/ubuntu_jampy.backaports_InRelease
InRelease
Intrelease
Get:7 http://archive.ubuntu.com/ubuntu_jampy.backaports_InRelease
Intrelease
Get:7 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev
Get:7 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev
Get:7 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev
Get:7 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev
Get:7 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev and64 12.3.0-1ubuntu1-22.04 [2.47 k8]
Get:4 http://archive.ubuntu.com/ubuntu_jampy.updates/main_and64 ltbgcc-12-dev and64 12.3.0-1ubuntu1-22.04 [2.47 k8]
Get:4 http://archive.
```

## 2 Step 2: Install the VirtualBox Extension Pack

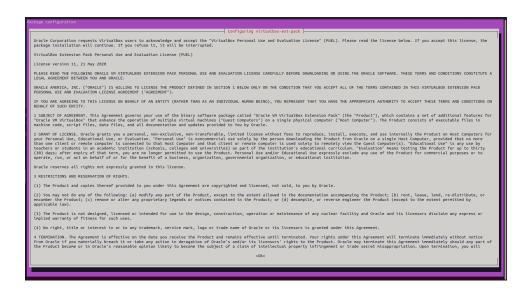
The Extension Pack provides additional features and support for USB 2.0 and USB 3.0 devices. To install the VirtualBox Extension Pack, take the following steps:

1. Run the command:

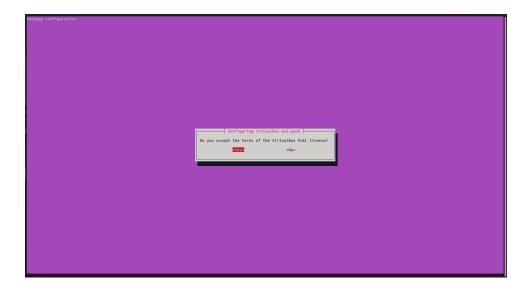
sudo apt install virtualbox-ext-pack

```
(base) termemal(reg. 5 sud apr install virtualbox-ext-pack
Building denement reg. 5 sud apr install virtualbox-ext-pack
Building denement reg. 5 sud apr install virtualbox-ext-pack
Building denement reg. 5 sud apr installed and are no longer required:
Use following packages were automatically installed and are no longer required:
Use 'sud apr at successors' to remove then,
The following Mit packages will be installed:
Superaded, levely installed, so the remove and 64 not upgraded,
Heed to get 10.7 MB of archives.
After this operative, installed, so the remove and 64 not upgraded,
Heed to get 10.7 MB of archives.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operative, 13 MB of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
After this operation of additional disk space will be used.
A
```

2. Read the VirtualBox Extension Pack Personal Use and Evaluation License (PUEL) and select <0k> to confirm.



3. Accept the VirtualBox PUEL license terms by selecting <Yes> and hitting Enter.



Once the installation is completed, VirtualBox is ready to run. Start it by executing: virtualbox

```
(base) tazmeen@afroz:~$ virtualbox
```

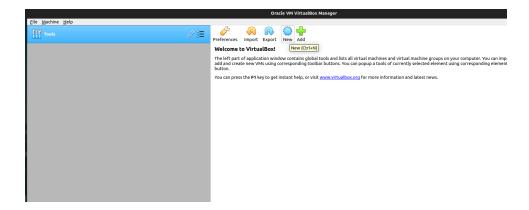
The command has no output but starts VirtualBox.

### 3 Step 3: Download the Debian ISO file

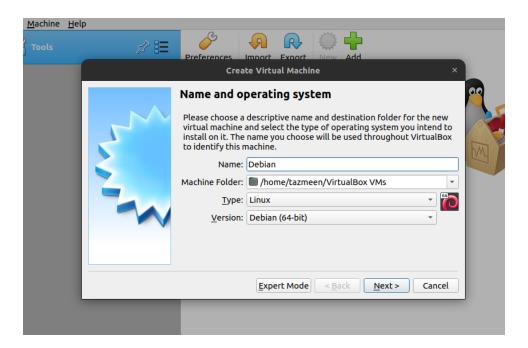
Download the Debian ISO file from the official website of Debian: https://cdimage.debian.org/debian-cd/current/amd64/iso-dvd/. Wait for the download to finish.

### 4 Step 4: Create a Debian 12 Virtual Machine

The first step towards Debian 12 installation is to create a new machine on VirtualBox. Start by clicking on the **New** option:



Now, enter the virtual machine name, set the location of the folder, and select the type and version of the Linux operating system. You can link the ISO file path now or later:

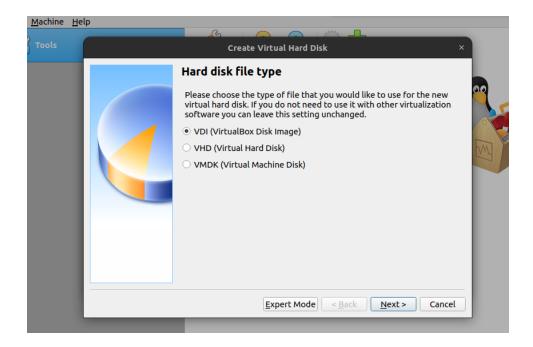


Allocate the required memory and click **Next**:





Select the hard disk file type and click  $\mathbf{Next}$ :



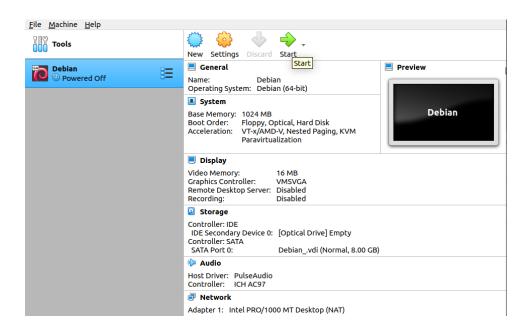
Choose if the hard disk is dynamically or fixed sized, then click **Next**:



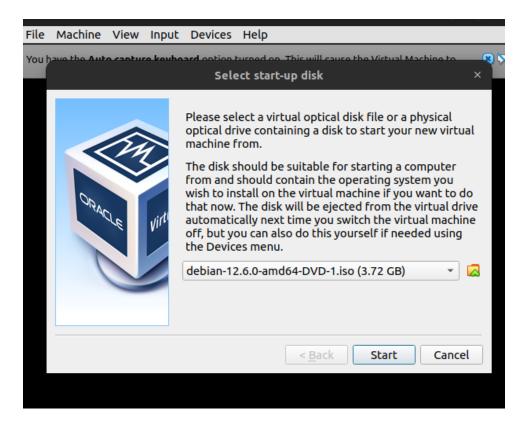
Allocate the required size of the disk and click **Create**:



Validate details and click **Start** to proceed with the installation:



Locate the Debian ISO file downloaded in the previous step:



Click Start to begin the Debian installation.

