

# HOW TO INSTALL AND USE VirtualBox

The logo consists of the letters 'H', 'L', 'C', and 'Z' rendered in a thick, black, brush-stroke style. The 'H' is on the left, followed by 'L', 'C', and 'Z' to the right. The strokes are somewhat irregular and textured, giving it a hand-drawn appearance.

*edited by Kamaleonte*

*translated by Wanda M*

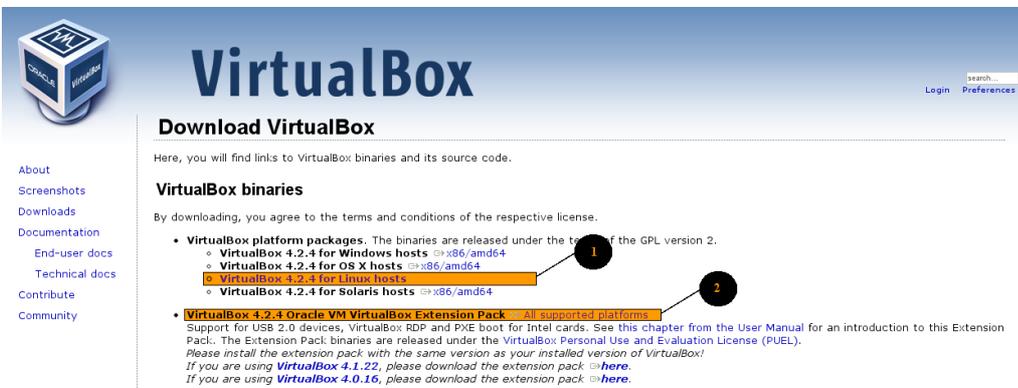
**VirtualBox** is a virtualization software platform designed primarily for running in a virtual environment under a particular operating system application incompatible with that system.

For example, you have a dual boot configuration with one of GNU / Linux and Windows is already running and you want to use the applications that are on the system? How boring to reboot ... Create and run a virtual machine operating system that you require with VB, all without rebooting!

1. **Download**
2. **installation**
  - **Installation for Debian**
  - **New kernel ?**
  - **Installation for Windows**
3. **configuration**
4. **useful contacts**

## 1. Download:

You visit this site [www.virtualbox.org](http://www.virtualbox.org) end then, in download section, it's possible to select the specific version for each operating system.



**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 4.2.4 for Windows hosts** [⇨](#) [x86/amd64](#)
  - **VirtualBox 4.2.4 for OS X hosts** [⇨](#) [x86/amd64](#)
  - **VirtualBox 4.2.4 for Linux hosts** [⇨](#) [x86/amd64](#)
  - **VirtualBox 4.2.4 for Solaris hosts** [⇨](#) [x86/amd64](#)
- **VirtualBox 4.2.4 Oracle VM VirtualBox Extension Pack** [⇨](#) [All supported platforms](#)  
Support for USB 2.0 devices, VirtualBox RDP and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to this Extension Pack. The 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 4.1.22, please download the extension pack [⇨ here](#).*  
*If you are using VirtualBox 4.0.16, please download the extension pack [⇨ here](#).*



**Download VirtualBox for Linux Hosts**

**VirtualBox 4.2.4 for Linux**

**Note:** The package architecture has to match the Linux kernel architecture, that is, if you are running a 64-bit kernel, install the appropriate AMD64 package (it does not matter if you have an Intel or an AMD CPU). Mixed installations (e.g. Debian/Lenny ships an AMD64 kernel with 32-bit packages) are not supported. To install VirtualBox anyway you need to setup a 64-bit chroot environment.

Please choose the appropriate package for your Linux distribution:

- Ubuntu 12.10 ("Quantal Quetzal") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Ubuntu 12.04 LTS ("Precise Pangolin") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Ubuntu 11.10 ("Oneiric Ocelot") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Ubuntu 11.04 ("Natty Narwhal") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Ubuntu 10.04 LTS ("Lucid Lynx") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Ubuntu 8.04 LTS ("Hardy Heron") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- **Debian 7.0 (Wheezy)** [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Debian 6.0 ("Squeeze") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- openSUSE 11.4 / 12.1 / 12.2 [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- SUSE Linux Enterprise Server 11 (SLES11) [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- SUSE Linux Enterprise Server 10 (SLES10) [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Fedora 17 ("Beefy Miracle") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Fedora 16 ("Verne") [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Mandriva 2011.0 [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Mandriva 2010.0 / 2010.1 [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Oracle Linux 6 ("OL6") / Red Hat Enterprise Linux 6 ("RHEL6") / CentOS 6 [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Oracle Linux 5 ("OL5") / Red Hat Enterprise Linux 5 ("RHEL5") / CentOS 5 [⇨](#) [i386](#) | [⇨](#) [AMD64](#)
- Oracle Linux 4 ("OL4") / Red Hat Enterprise Linux 4 ("RHEL4") / CentOS 4 [⇨](#) [i386](#)
- All distributions [⇨](#) [i386](#) | [⇨](#) [AMD64](#)

## 2. Installation for Debian:

the first step is to install parts of kernel; after logging in as root it's need to write in a terminal :

```
uname -r #print version of the current kernel
```

If for example I get "3.2.0-4-686-pae" I need to install the parts of this module end write in a terminal :

```
aptitude update  
aptitude install linux-headers-3.2.0-4-686-pae
```

If there isn't, it should be updated the kernel.

For install virtual machine you must use the command :

```
dpkg -i virtualbox-4.2_4.2.4-81684~Debian~wheezy_i386.deb
```

### Example:

```
root@localhost:/home/sa# dpkg -i virtualbox-4.2_4.2.4-81684~Debian~wheezy_i386.deb
selected package virtualbox-4.2 not previously selected.
(Reading database ... 124025 files and directories currently installed.)
Extraction of virtualbox-4.2 (from virtualbox-4.2_4.2.4-81684~Debian~wheezy_i386.deb
Setting up virtualbox-4.2 (4.2.4-81684~Debian~wheezy)...
Addition of the "vboxusers" (GID 112) ...
Done.
[Ok] Stopping VirtualBox kernel modules:.
[Ok] Recompiling VirtualBox kernel modules:.
[Ok] Starting VirtualBox kernel modules:.
Processing triggers for shared-mime-info ...
Processing triggers for desktop-file-utils ...
Processing triggers for hicolor-icon-theme ...
Processing triggers for python-central ...
root@localhost:/home/sa#
```

Another critical step is the assignment of users who need to use the virtual machine (in this example there are users "sa" and "pippo") to vboxusers group, otherwise only administrator can use it.

the commands for the terminal are:

```
addgroup sa vboxuser
addgroup pippo vboxuser
```

for verify:

```
cat /etc/group
```

Installation is completed!!!

### **New kernel :**

if the kernel has been updated, but the virtual machine has already been installed, it needs to repeat the first two commands of step [2](#) and must be notified to the virtualbox about new kernel through by typing in terminal:

```
/etc/init.d/vboxdrv setup
```

### example:

```
root@debian:/home/sa# /etc/init.d/vboxdrv setup
[ ok ] Stopping VirtualBox kernel modules:.
[ ok ] Uninstalling old VirtualBox DKMS kernel modules:.
[ ok ] Removing old VirtualBox pci kernel module:.
[ ok ] Removing old VirtualBox netadp kernel module:.
[ ok ] Removing old VirtualBox netflt kernel module:.
[ ok ] Removing old VirtualBox kernel module:.
[....] Trying to register the VirtualBox kernel modules using DKMS:
[FAIL] Failed, trying without DKMS ... failed!
[ ok ] Recompiling VirtualBox kernel modules:.
[ ok ] Starting VirtualBox kernel modules:.
root@debian:/home/sa#
```

### **Windows Setup:**

To make the installation for windows is only necessary to download the two files, a "virtual machine" and add-on pack extension pack.

### **3. Configuration:**

About the configuration on operating system, there is a [demonstration video](#) on our youtube channel (*for even better view the video, click the gear below the video*).

The video shows how to use the additional package, how to install an operating system in the virtual machine and how to share files between the operating system of the real PC and virtual sistem.

That's all!

### **Questions or help:**

For any questions it's possible write on the website or in [IRC channel](#)

**For more information:**

