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Download VirtualBox for Linux Hosts

VirtualBox 4.3.16 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 13.04 ("Raring Ringtail") / 13.10 ("Saucy Salamander") / 14.04 ("Trusty Tahr") ⇨[i386](#) | ⇨[AMD64](#)
- Ubuntu 12.10 ("Quantal Quetzal") ⇨[i386](#) | ⇨[AMD64](#)
- Ubuntu 12.04 LTS ("Precise Pangolin") ⇨[i386](#) | ⇨[AMD64](#)
- Ubuntu 10.04 LTS ("Lucid Lynx") ⇨[i386](#) | ⇨[AMD64](#)
- Debian 7.0 ("Wheezy") ⇨[i386](#) | ⇨[AMD64](#)
- Debian 6.0 ("Squeeze") ⇨[i386](#) | ⇨[AMD64](#)
- openSUSE 12.3 / 13.1 ⇨[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 18 ("Spherical Cow") / 19 ("Schrödinger's Cat") ⇨[i386](#) | ⇨[AMD64](#)
- Fedora 17 ("Beefy Miracle") ⇨[i386](#) | ⇨[AMD64](#)
- Mandriva 2011.0 ⇨[i386](#) | ⇨[AMD64](#)
- Oracle Linux 7 ("OL7") / Red Hat Enterprise Linux 7 ("RHEL6") / CentOS 7 ⇨[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](#)
- All distributions ⇨[i386](#) | ⇨[AMD64](#)

You might want to compare the

- [SHA256](#) checksum or the
- [MD5](#) checksum

to verify the integrity of downloaded packages.

The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!

Oracle Linux

Users of Oracle Linux 5 and 6 can use the public yum ⇨[repository](#) and enable the el5_addons (OEL5) or the ol6_addons (OL6). After that, do

```
yum install VirtualBox-4.3
```

to the latest maintenance release of VirtualBox 4.3.x.

Debian-based Linux distributions

Add one of the following lines according to your distribution to your `/etc/apt/sources.list`:

```
deb http://download.virtualbox.org/virtualbox/debian trusty contrib
deb http://download.virtualbox.org/virtualbox/debian saucy contrib
deb http://download.virtualbox.org/virtualbox/debian raring contrib
deb http://download.virtualbox.org/virtualbox/debian quantal contrib
deb http://download.virtualbox.org/virtualbox/debian precise contrib
deb http://download.virtualbox.org/virtualbox/debian lucid contrib non-free
deb http://download.virtualbox.org/virtualbox/debian wheezy contrib
deb http://download.virtualbox.org/virtualbox/debian squeeze contrib non-free
```

(Up to version 3.2 the packages were located in the non-free section. Starting with version 4.0 they are located in the contrib section.)

The Oracle public key for apt-secure can be downloaded [here](#). You can add this key with

```
sudo apt-key add oracle_vbox.asc
```

or combine downloading and registering:

```
wget -q https://www.virtualbox.org/download/oracle_vbox.asc -O- | sudo apt-key add -
```

The key fingerprint is

```
7B0F AB3A 13B9 0743 5925 D9C9 5442 2A4B 98AB 5139
Oracle Corporation (VirtualBox archive signing key) <info@virtualbox.org>
```

(As of VirtualBox 3.2, the signing key was changed. The old Sun public key for apt-secure can be downloaded ⇨[here](#).)

To install VirtualBox, do

```
sudo apt-get update
sudo apt-get install virtualbox-4.3
```

Replace virtualbox-4.3 by

- virtualbox-4.2 to install VirtualBox 4.2.18
- virtualbox-4.1 to install VirtualBox 4.1.28
- virtualbox-4.0 to install VirtualBox 4.0.20
- virtualbox-3.2 to install VirtualBox 3.2.22

Note: Ubuntu/Debian users might want to install the `dkms` package to ensure that the VirtualBox host kernel modules (`vboxdrv`, `vboxnetflt` and `vboxnetadp`) are properly updated if the linux kernel version changes during the next `apt-get upgrade`. For Debian it is available in Lenny backports and in the normal repository for Squeeze and later. The `dkms` package can be installed through the Synaptic Package manager or through the following command:

```
sudo apt-get install dkms
```

What to do when experiencing **The following signatures were invalid: BADSIG ...** when refreshing the packages from the repository?

```
# sudo -s -H
# apt-get clean
# rm /var/lib/apt/lists/*
# rm /var/lib/apt/lists/partial/*
# apt-get clean
# apt-get update
```

RPM-based Linux distributions

Starting with VirtualBox 3.0.12 we provide a yum-style repository for Oracle Linux/Fedora/RHEL/openSUSE. Note that **3.0.x** .rpm packages are named *VirtualBox-3.0.x* while **3.1.x** .rpm packages are named *VirtualBox-3.1-3.1.x*. This naming scheme allows to use the older 3.0.x packages without changing the repository.

Furthermore, all .rpm packages are signed. The Oracle public key for rpm can be downloaded [here](#). You can add this key (*not necessary for yum users, see below!*) with

```
sudo rpm --import oracle_vbox.asc
```

or combine downloading and registering:

```
wget -q https://www.virtualbox.org/download/oracle_vbox.asc -O- | rpm --import -
```

The key fingerprint is

```
7B0F AB3A 13B9 0743 5925 D9C9 5442 2A4B 98AB 5139
Oracle Corporation (VirtualBox archive signing key) <info@virtualbox.org>
```

After importing the public key, the package signature can be checked with

```
rpm --checksig PACKAGE_NAME
```

Note that importing the key is not necessary for yum users (Oracle Linux/Fedora/RHEL/CentOS) when using one of the virtualbox.repo files from below as yum downloads and imports the public key automatically!

The package signature is checked by yum/zypper as well:

- Users of Oracle Linux / RHEL can add ⇨[the Oracle Linux repo file](#) to `/etc/yum/repos.d/`.
- Users of Fedora can add ⇨[the Fedora repo file](#) to `/etc/yum/repos.d/`.
- Users of openSUSE can add the proper repo file for ⇨[10.3](#) (VirtualBox 3.0.x only), ⇨[11.0](#) (VirtualBox 3.2.x only), ⇨[11.1](#), ⇨[11.2](#), ⇨[11.3](#), ⇨[11.4/12.1/12.2](#) or ⇨[12.3/13.1](#) to `/etc/zypp/repos.d/`.

Note: Users of Fedora/Mandriva might want to install the `dkms` package (not available on openSUSE) to ensure that the VirtualBox host kernel modules (`vboxdrv`, `vboxnetflt` and `vboxnetadp`) are properly updated if the linux kernel version changes during the next kernel update.