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VirtualBox 5.1.6 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 16.04 ("Xenial") i386 | AMD64
- Ubuntu 15.10 ("Wily") i386 | AMD64
- Ubuntu 14.04 ("Trusty") / 14.10 ("Utopic") / 15.04 ("Vivid") i386 | AMD64
- Ubuntu 12.04 LTS ("Precise") i386 | AMD64
- Debian 9 ("Stretch") i386 | AMD64
- Debian 8 ("Jessie") i386 | AMD64
- Debian 7 ("Wheezy") i386 | AMD64
- openSUSE 13.2 ("Harlequin") / Leap 42.1 ("Malachite") i386 | AMD64
- Fedora 24 i386 | AMD64
- Fedora 22 / 23 i386 | AMD64
- Oracle Linux 7 ("OL7") / Red Hat Enterprise Linux 7 ("RHEL7") / 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 (built on EL5 and therefore do not require recent system libraries) 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, 6 and 7 can use the public yum repository and enable the el5_addons (OEL5), the ol6_addons (OL6) or the ol7_addons (OL7). If a public-yum repo file **already exists** in /etc/yum.repos.d, do **not** overwrite it but just enable the addons! After that, do

```
yum install VirtualBox-5.1
```

to the latest maintenance release of VirtualBox 5.0.x.

Debian-based Linux distributions

Add the following line to your /etc/apt/sources. list:

```
deb http://download.virtualbox.org/virtualbox/debian xenial contrib
```

According to your distribution, replace 'xenial' by 'vivid', 'utopic', 'trusty', 'raring', 'quantal', 'precise', 'lucid', 'jessie', 'wheezy', or 'squeeze'.

(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 for **Debian 8** ("Jessie") / **Ubuntu 16.04** ("Xenial") and later
- here for older distributions.

You can add these keys with

```
sudo apt-key add oracle_vbox_2016.asc
sudo apt-key add oracle_vbox.asc
```

or combine downloading and registering:

```
wget -q https://www.virtualbox.org/download/oracle_vbox_2016.asc -0- | sudo apt-key add -wget -q https://www.virtualbox.org/download/oracle_vbox.asc -0- | sudo apt-key add -
```

The key fingerprint for oracle_vbox_2016.asc is

```
B9F8 D658 297A F3EF C18D 5CDF A2F6 83C5 2980 AECF Oracle Corporation (VirtualBox archive signing key) <info@virtualbox.org>
```

The key fingerprint for oracle_vbox.asc is

```
7BOF 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-5.1
```

Replace virtualbox-5.1 by virtualbox-4.3 to install VirtualBox 4.3.36 **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.x*. This naming scheme allows to use the older 3.0.x packages without changing the repository.

Furthemore, 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 -0- | 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 11.4/12.1/12.2, 12.3, 13.1 or 13.2 / 42.1 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.



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