

# VirtualBox VM

## Guest Additions

- To upgrade the Guest Additions after upgrading the VirtualBox version, download the guest additions pack, shut down all virtual machines then start VirtualBox as root

```
sudo virtualbox
```

- After installing the Guest Additions, close VirtualBox and restart it under your user account

## Install Guest Additions on a Debian 11 host

- The following steps need to be taken inside the VM
- Add the following line to `/etc/apt/sources.list.d`:

```
deb http://ftp.debian.org/debian stretch-backports main contrib
```

- Install `virtualbox-guest-dkms`, kernel headers, and, optionally, `virtualbox-guest-x11` (for the graphical guest utilities):

```
sudo apt update
sudo apt install virtualbox-guest-dkms virtualbox-guest-x11 linux-headers-$(uname -r)
```

- Reboot the guest system.
- More info: [How to install VirtualBox Guest Additions in a Debian virtual machine](#)

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