

# 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

1. The following steps need to be taken inside the VM
2. Install the kernel headers, DKMS framework, and build tools

```
$ sudo apt update -y && sudo apt upgrade  
sudo apt install dkms linux-headers-$(uname -r) build-essential
```

3. Attach the guest addition ISO to the VM and mount it

```
$ sudo mount /dev/cdrom /mnt/cd
```

4. Install the VirtualBox guest additions

```
sudo sh /mnt/cd/VBoxLinuxAdditions.run
```

5. Restart your virtual machine in order to reload the kernel modules

```
systemctl reboot -i
```

6. If you want the VM to automatically switch to full screen upon boot or login, toggle the **View option -> Auto-resize Guest Display**

7. Uninstall the guest additions

```
sudo sh /mnt/VBoxLinuxAdditions.run uninstall
```

8. Repeat steps 3-6 if the kernel or the VirtualBox version changes

- [Install VirtualBox Guest Additions on Debian 11](#)

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