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 guest operating system

1. The following steps need to be taken inside the VM after the operating system has been installed
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

Reboot (dead) vm

1. `vboxmanage list runningvms`

2. `vboxmanage controlvm <machine> acpipowerbutton`
3. `vboxmanage startvm <machine> –type=headless`

Settings

- `vboxmanage modifyvm <machine> –defaultfrontend headless`
- `vboxmanage controlvm <machine> poweroff` if the vm cannot be shut down gracefully

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