VirtualBox

This page contains my personal notes on various issues and solutions for VirtualBox. These were mostly written while working on Kubuntu 20.04, but any Ubuntu derivative should be fine.

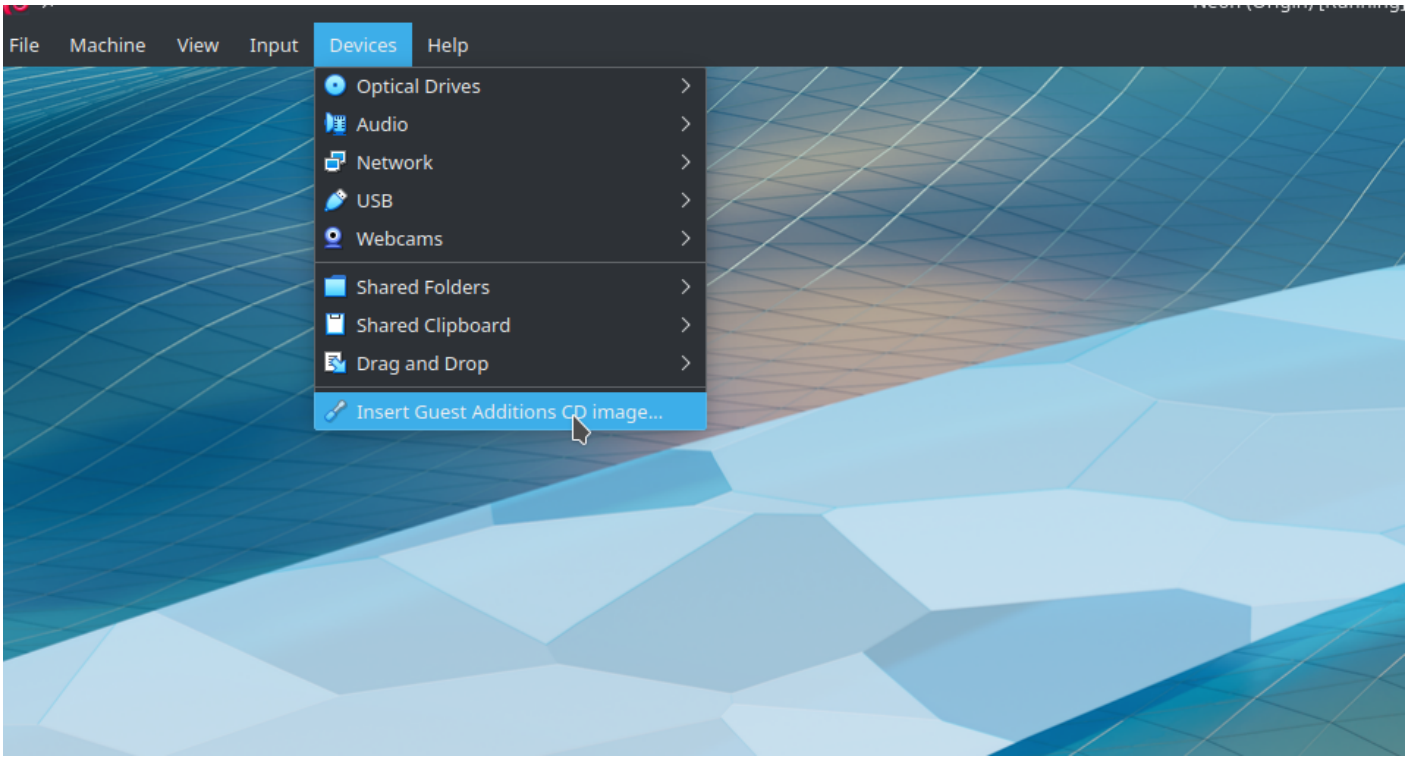
Download your VirtualBox version from VirtualBox Linux Downloads

```
cd ~/Downloads
sudo apt install ./virtualbox-6.1_6.1.32-149290~Ubuntu~eoan_amd64.deb
```

Guest Additions

VirtualBox Guest Additions allow you to do things like drag-and-drop files between host and guest machines, share clipboard content, and mount shared directories or devices.

First, boot the VM and navigate to `Devices->Insert Guest Additions CD Image`.



This will automatically mount the Guest Additions CD at `/media/<YOUR_USERNAME>/VBox_GAs_6.1.32/`. Run the following commands to complete the setup. In these commands, `kapper` is my username and should be replaced with your username instead`

```
cd /media/kapper/VBox_GAs_6.1.32/
sudo ./autostart.sh
```

After following the prompts, the installation will finish and you should reboot your VM. Consider powering off the VM and taking a look at the VM settings at this time, since many of the settings we gained by installing Guest Additions cannot be adjusted while the VM is running. An example of one such setting is mounting Shared Folders between your host and guest.

USB Devices

This section covers requied setup for sharing USB devices between host and guests when running VirtualBox VMs.

LinuxBabe - USB Devices on VirtualBox Guest

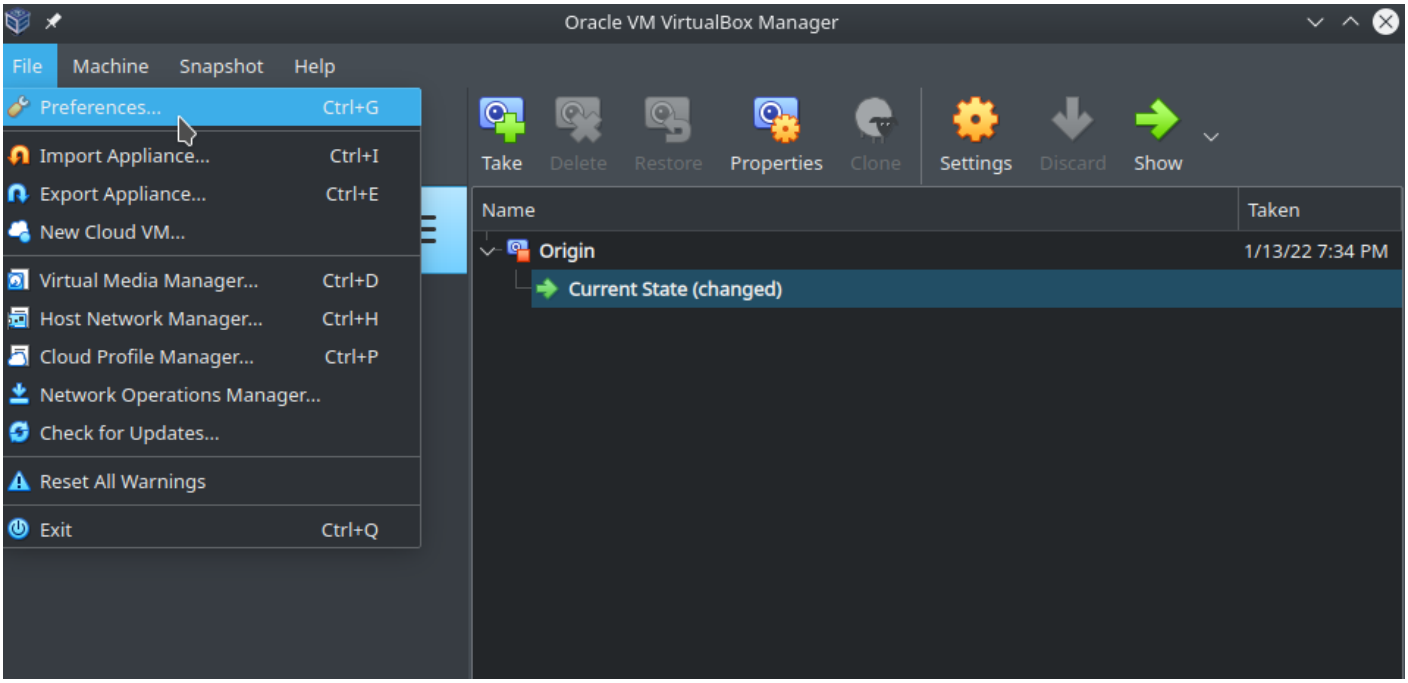
VirtualBox Extensions

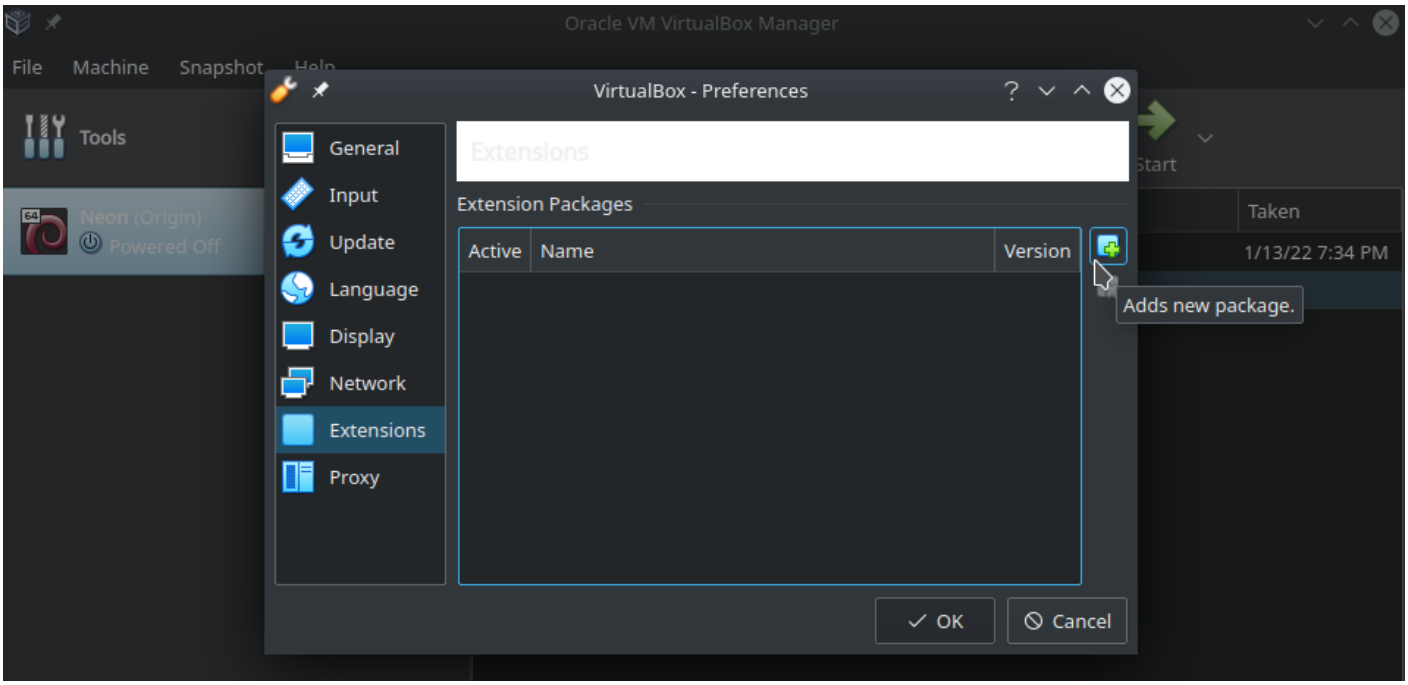
Download VirtualBox Extensions **and be sure the version matches with your VirtualBox version.**

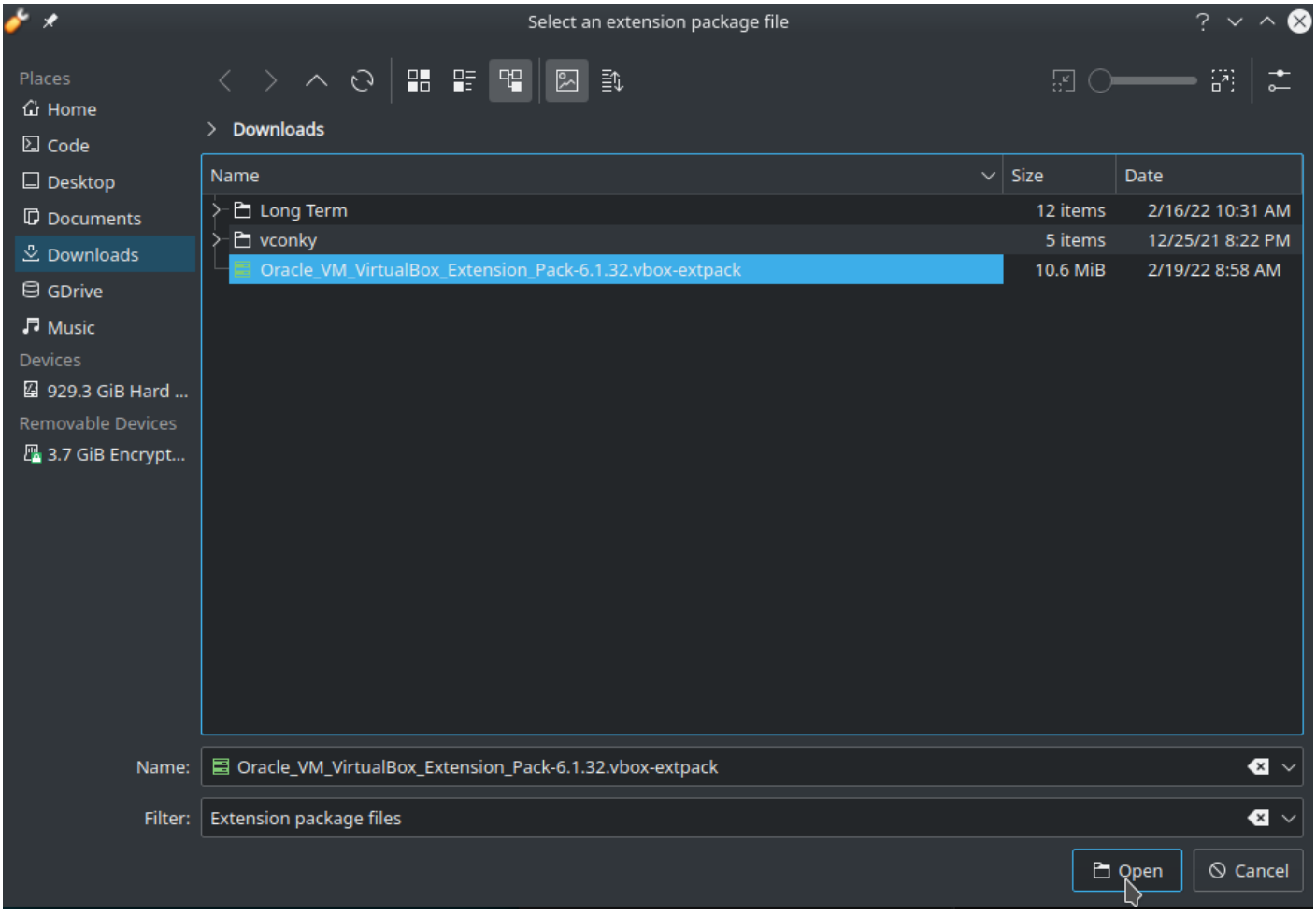
You can then install the VirtualBox Extensions with a command

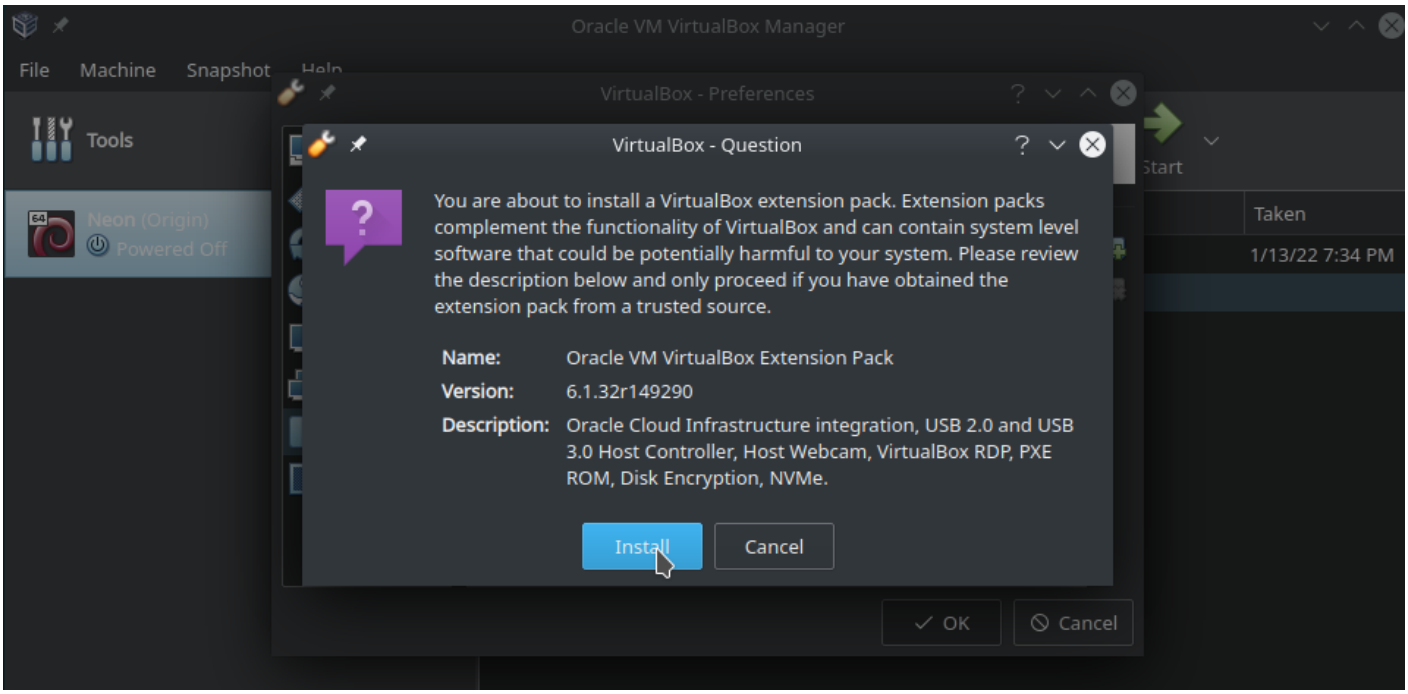
```
sudo vboxmanage extpack install --replace ~/Downloads/Oracle_VM_VirtualBox_Extension_Pack-6.1.32.vbox-extpack
```

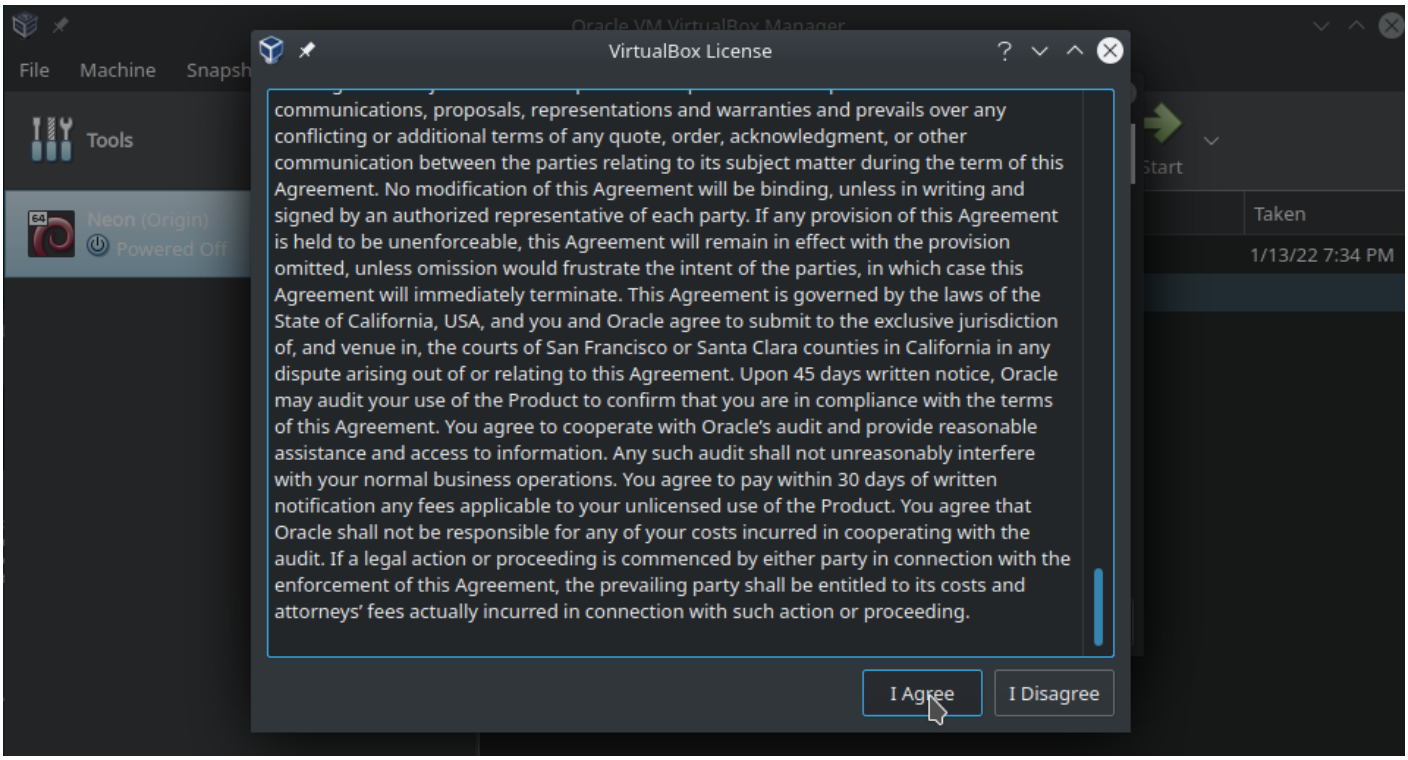
Or you can optionally do the same through the VirtualBox GUI if you'd prefer-




Oracle VM VirtualBox Manager
File
Machine
Snapshot
Help
Tools
Neon (Origin)
Powered Off
Start
Taken
1/13/22 7:34 PM
VirtualBox - Preferences
General
Input
Update
Language
Display
Network
Extensions
Proxy
Extensions
Extension Packages
Active
Name
Version
Adds new package.
OK
Cancel

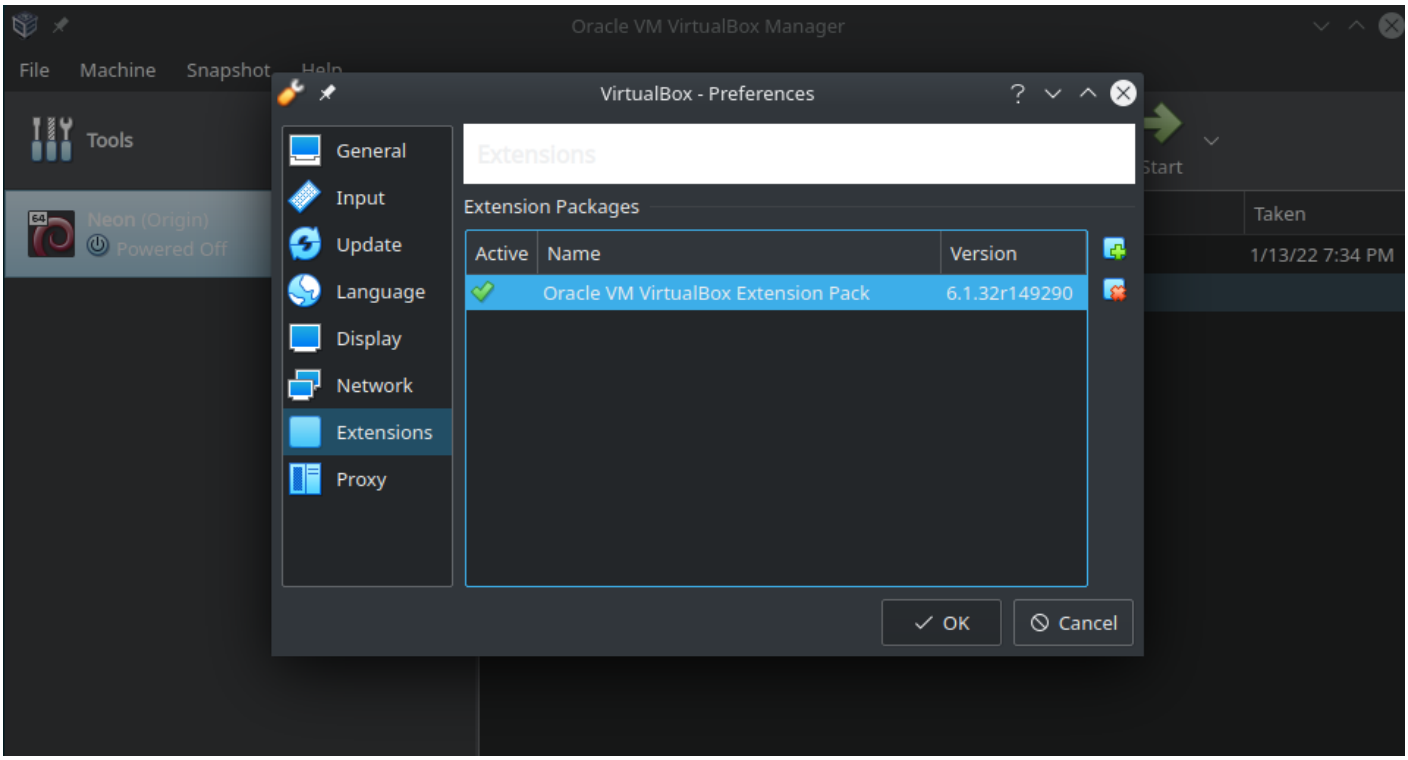

Select an extension package file
Places
Home
Code
Desktop
Documents
Downloads
GDrive
Music
Devices
929.3 GiB Hard ...
Removable Devices
3.7 GiB Encrypt...
Downloads
Name
Size
Date
Long Term
12 items
2/16/22 10:31 AM
vconky
5 items
12/25/21 8:22 PM
Oracle_VM_VirtualBox_Extension_Pack-6.1.32.vbox-extpack
10.6 MiB
2/19/22 8:58 AM
Name:
Oracle_VM_VirtualBox_Extension_Pack-6.1.32.vbox-extpack
Filter:
Extension package files
Open
Cancel





Input your `sudo` password, and the installation should complete. If installation fails, check that the verision of the VirtualBox Extensions matches the version of VirtualBox exactly.

Once finished, the extension should appear as installed in the list -



VirtualBox User Group

For VirtualBox to detect USB devices, we also need to add our user to the `vboxusers` group. To do this, run the following commands. In the following command, my username is `kapper` and you should replace this with your username.

```
sudo usermod -aG vboxusers kapper
```

To verify your user has been added to the group, run the following command and check that the output produced shows you're in `vboxusers` group.

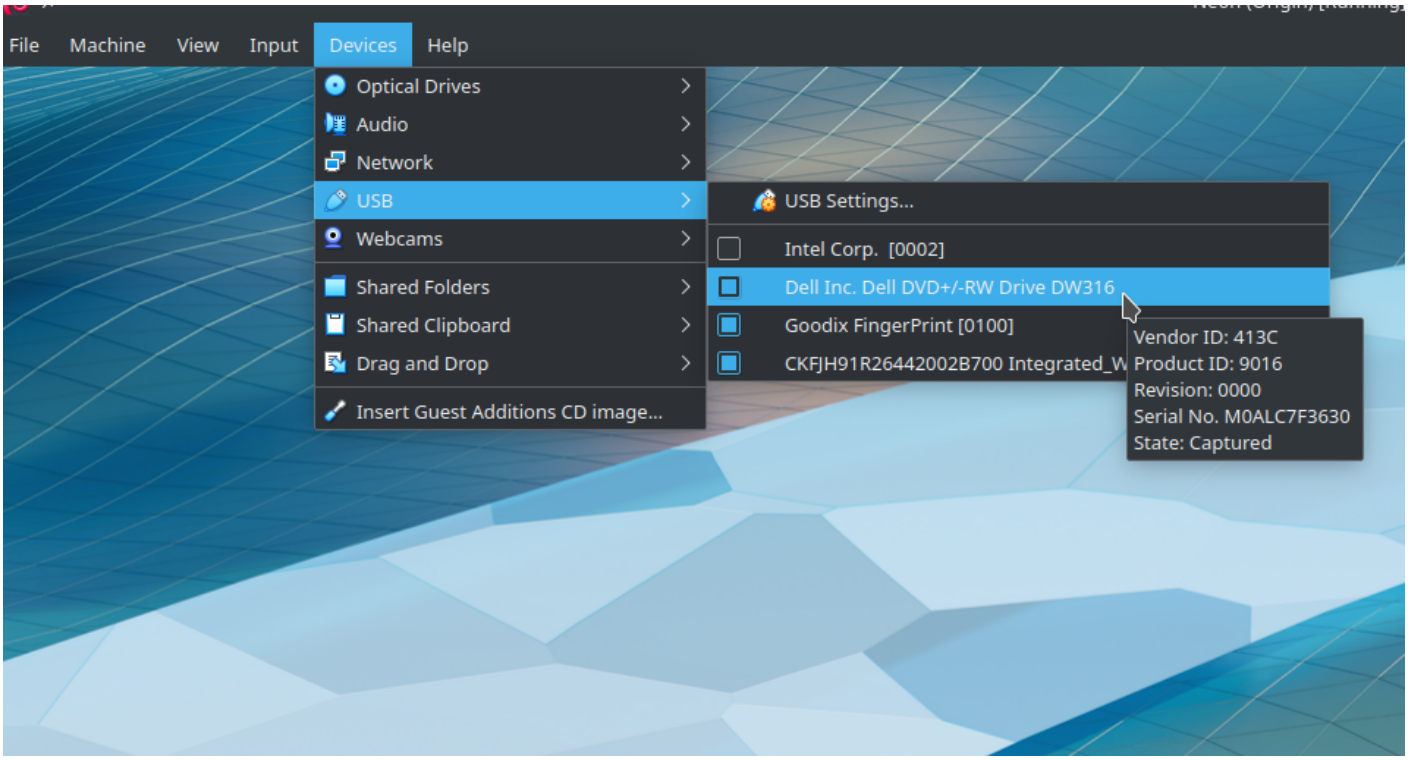
```
groups kapper


kapper : kapper adm cdrom sudo dip video plugdev lpadmin lxd sambashare wireshark docker vboxusers
```

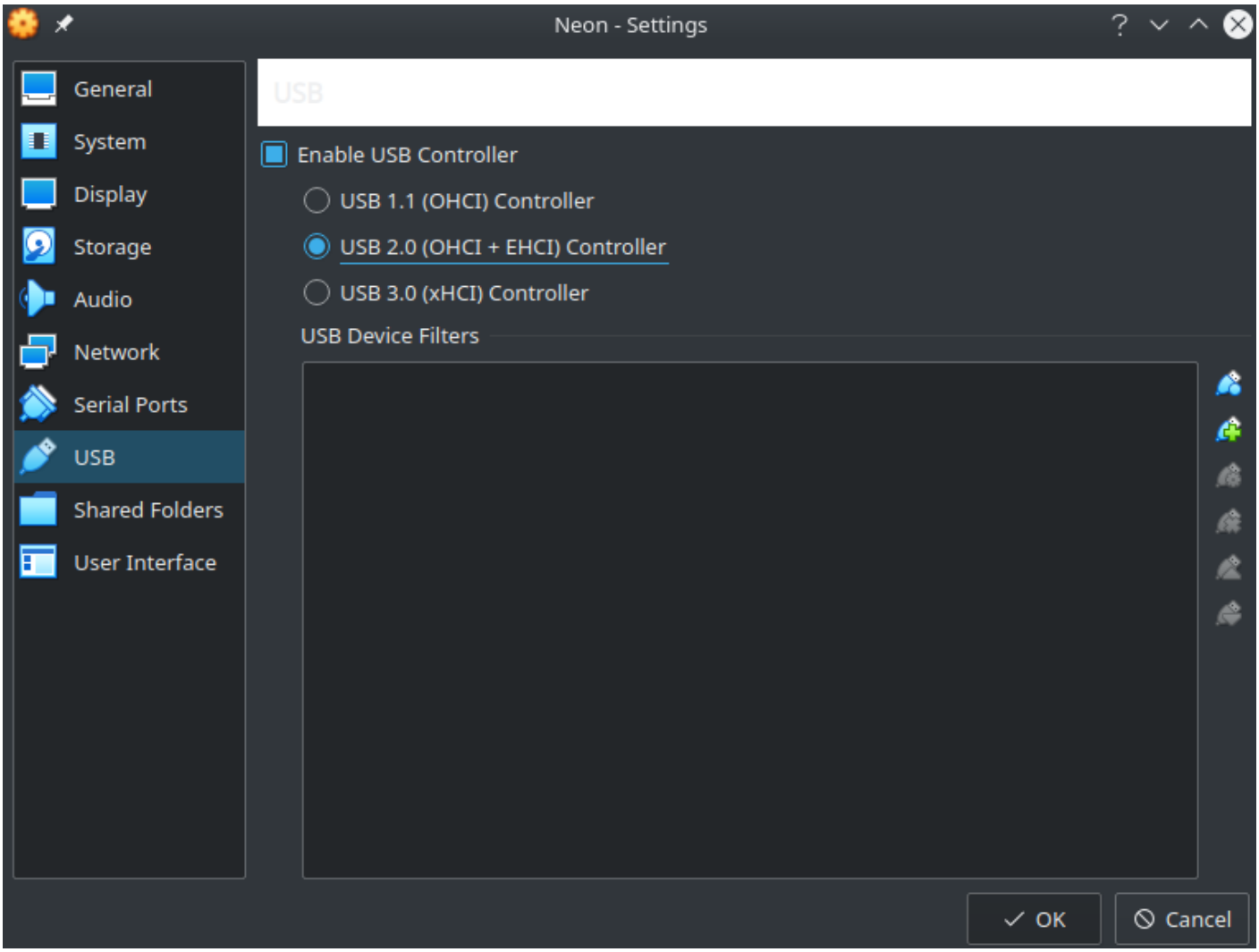
Then you will need to log out and back in to your system for the changes to be applied. I usually just run the `reboot` command.

Accessing USB Devices

Accessing the devices should be as simple as starting the VM and navigating to the toolbar and selecing `Devices->USB-><Your device>`



Be careful, if you attach a USB 3.0 device when USB 2.0 controller is activated, you will get `Failed to create a proxy device for the USB device. (Error: VERR_PDM_NO_USB_PORTS).` error when you try to attach the device. Make sure this setting reflects the devices you're using.



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