

OSGeoLive for the Spatial Ecology courses

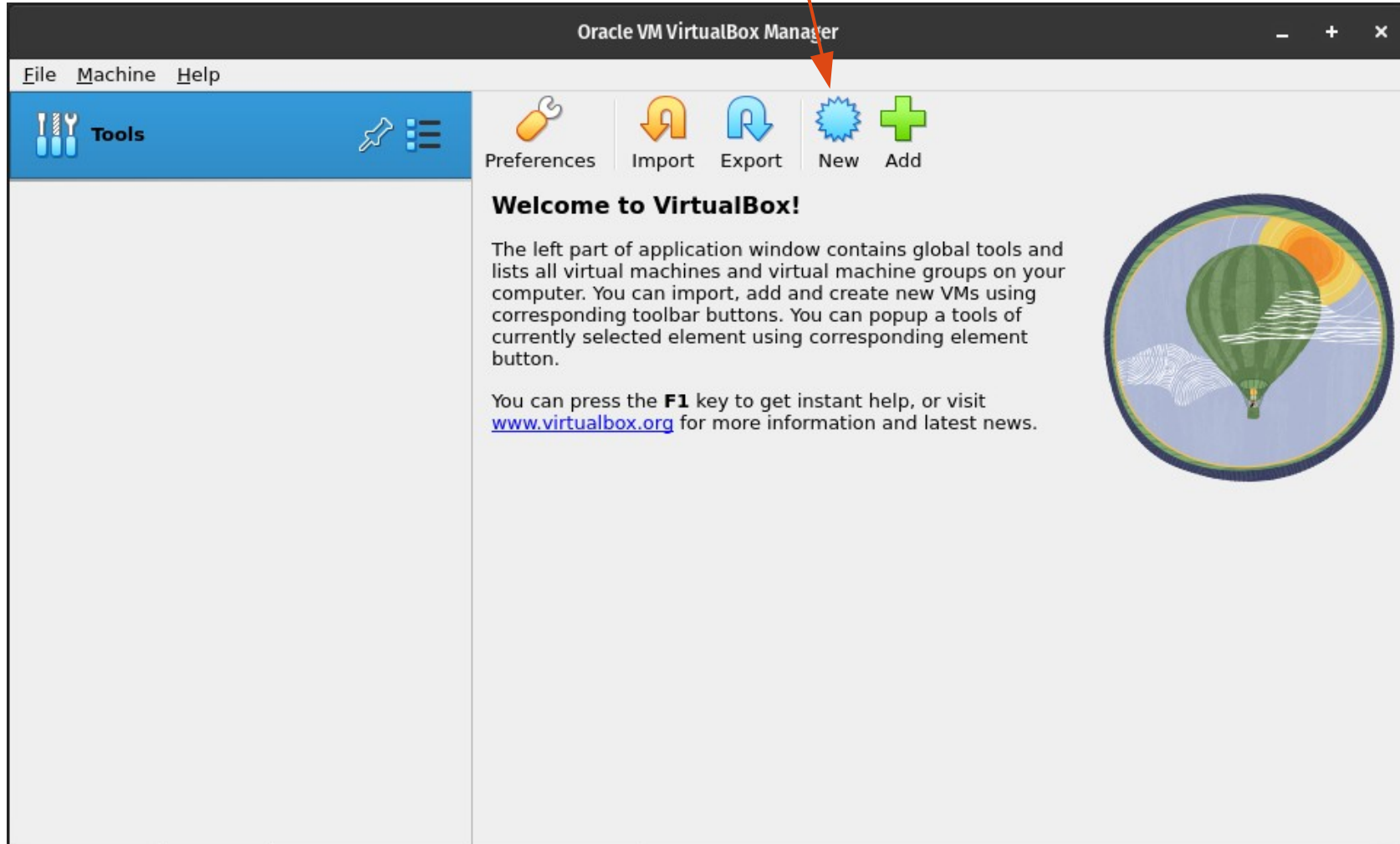


Mastering several
Open Source software
in a Linux OS



VirtualBox


Start the VirtualBox application and click on the New button to create a new VM, and then Next.



Create Virtual Machine

Enter a name such as osgeolive-16, and choose Linux as the “Operating system”, and Ubuntu (64bit) as “Version”.

Pay attention if you do not see Ubuntu (64bit) but only Ubuntu (32bit) means that your BIOS is not set for virtualization. Enter BIOS according to your PC configuration and enable virtualization (see example at <https://goo.gl/Zgq14A>)



Create Virtual Machine

Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name: osgeolive-16.0 ✓

Folder: /home/selv/VirtualBox VMs


ISO Image: <not selected>

Edition:

Type: Linux 64

Version: Ubuntu 22.04 LTS (Jammy Jellyfish) (64-bit)

☐ Skip Unattended Installation

 No ISO image is selected, the guest OS will need to be installed manually.

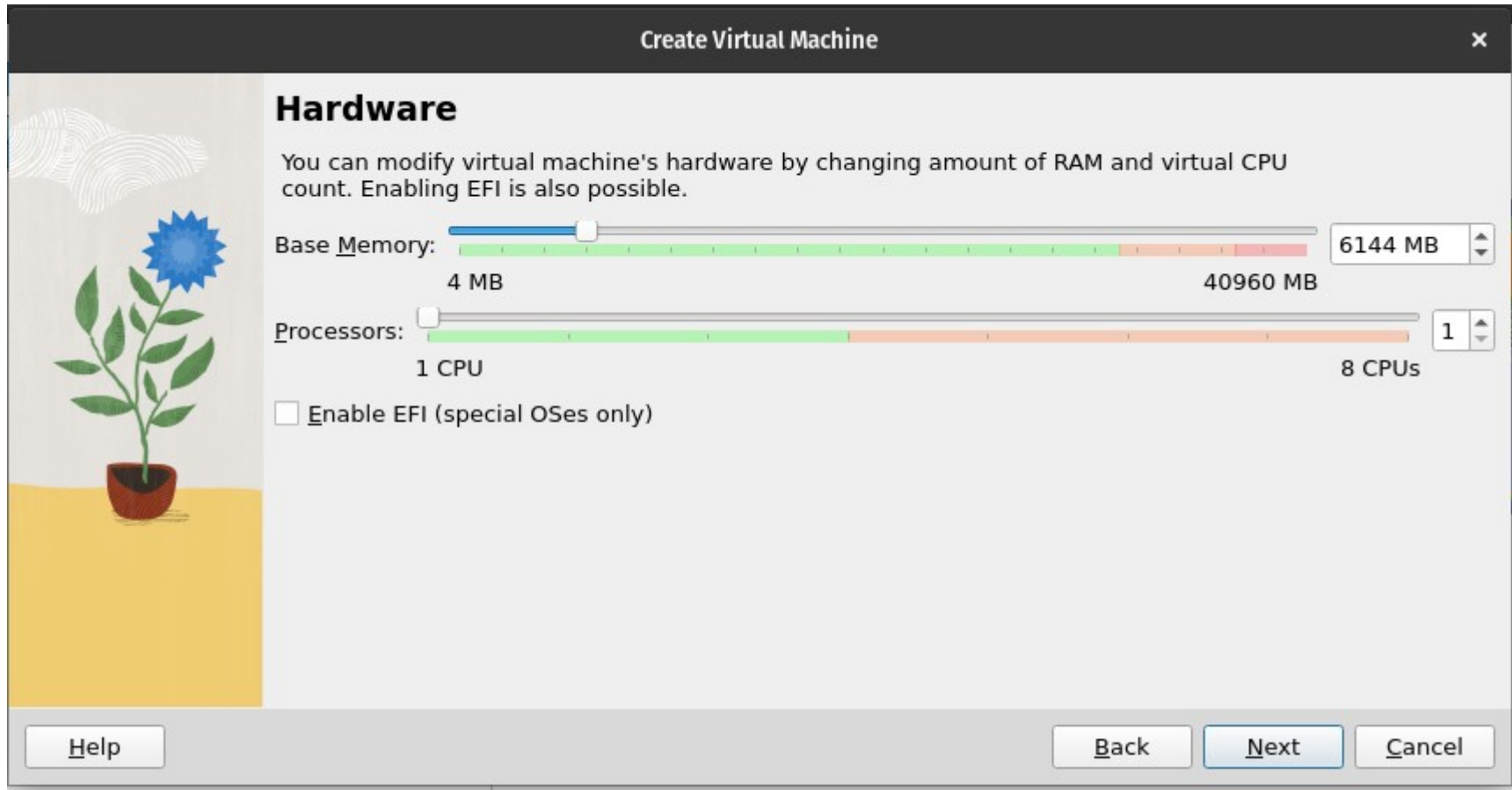
[Help](#) [Expert Mode](#) [Back](#) [Next](#) [Cancel](#)

Leave the default path of your OS



Set memory size

Set the memory Size (4-6G). The dedicate RAM for the VM can change according to the RAM of your host-pc. Do not overpass the green area! Increase the processors (2CPUs) only if your VM is too slow. Remember you can change these options only when the VM has been shout-down.



The screenshot shows the 'Create Virtual Machine' window with the 'Hardware' tab selected. On the left is a decorative illustration of a potted plant with a blue flower. The main area contains instructions and sliders for configuring hardware. The 'Base Memory' slider is set to 6144 MB, with a green segment from 4 MB to 40960 MB. The 'Processors' slider is set to 1 CPU, with a green segment from 1 CPU to 8 CPUs. There is an unchecked checkbox for 'Enable EFI (special OSes only)'. At the bottom are buttons for 'Help', 'Back', 'Next', and 'Cancel'.

Create Virtual Machine

Hardware

You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 6144 MB

4 MB 40960 MB

Processors: 1

1 CPU 8 CPUs

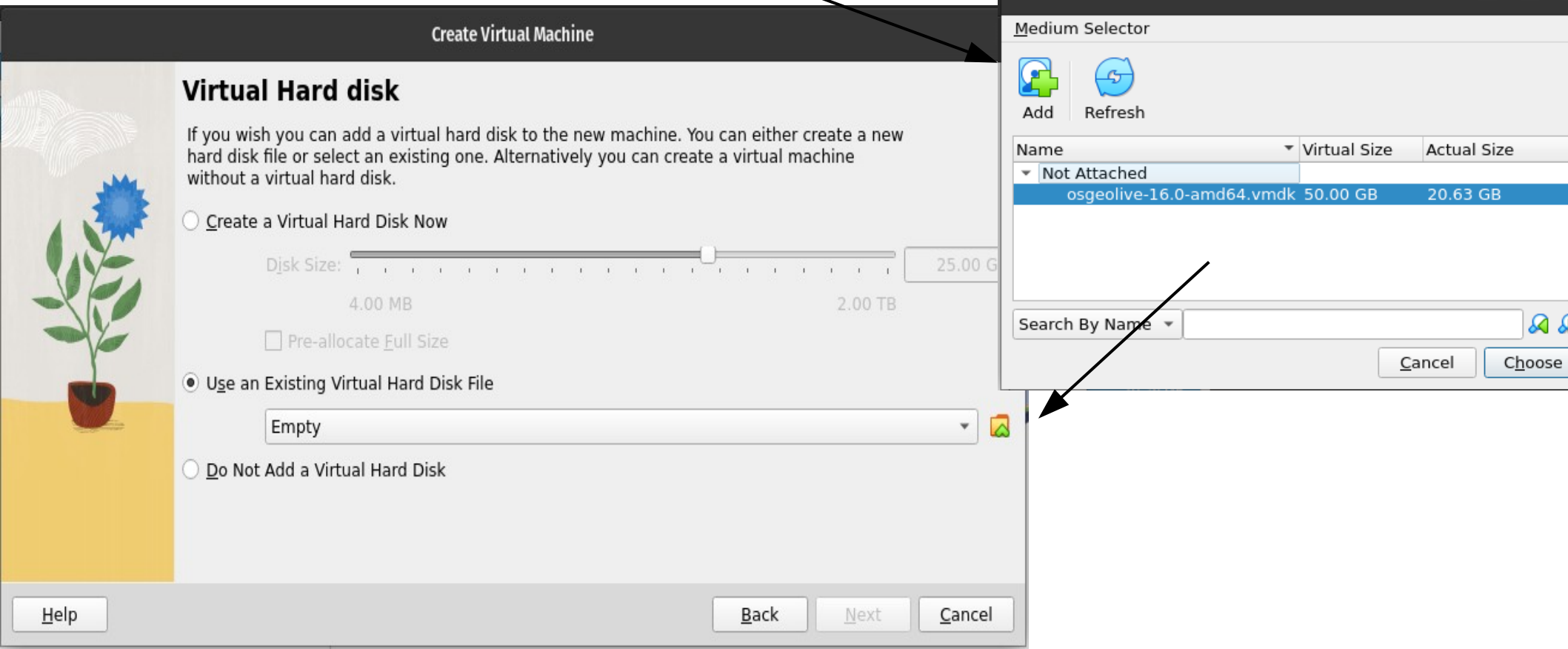
☐ Enable EFI (special OSes only)

Help Back Next Cancel

Load the vmdk file

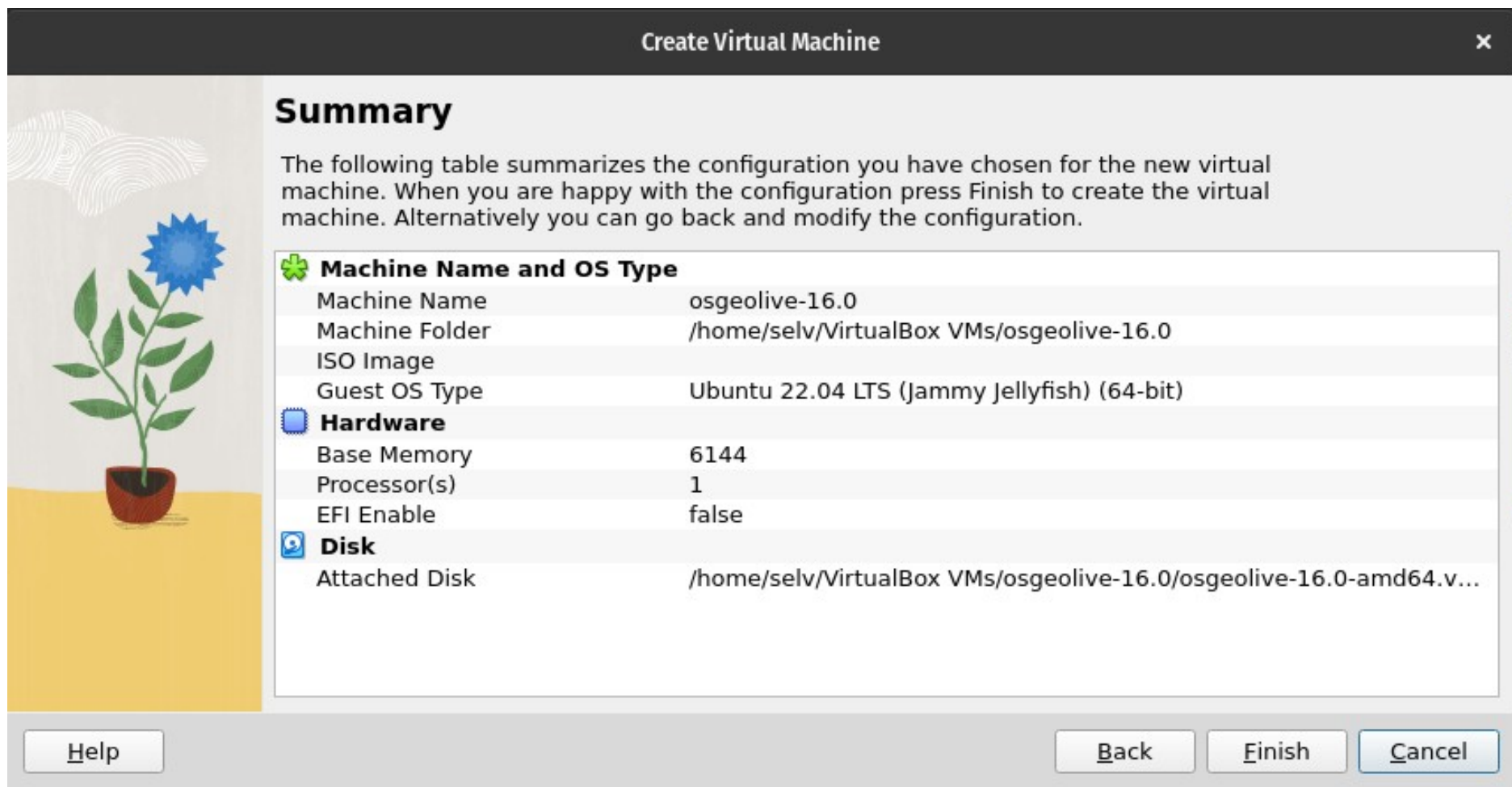
Choose “Use existing virtual hard disk file”.

Now click on the button (a folder yellow icon) to browse to where you saved the osgeolive-16.0-amd64.vmdk file. Select the file, press Next and Create.



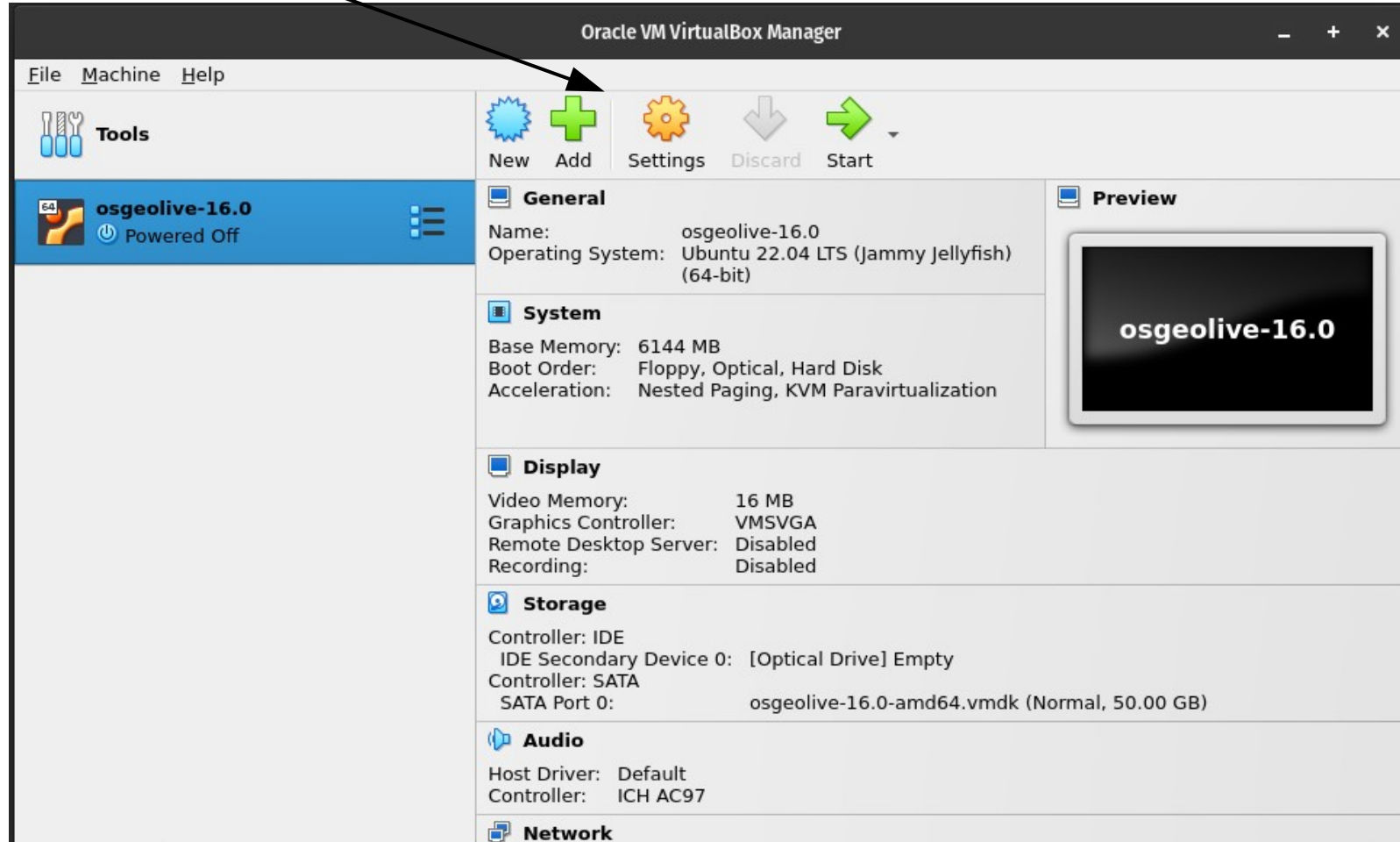
Overview

Check if everything is correct



Setup

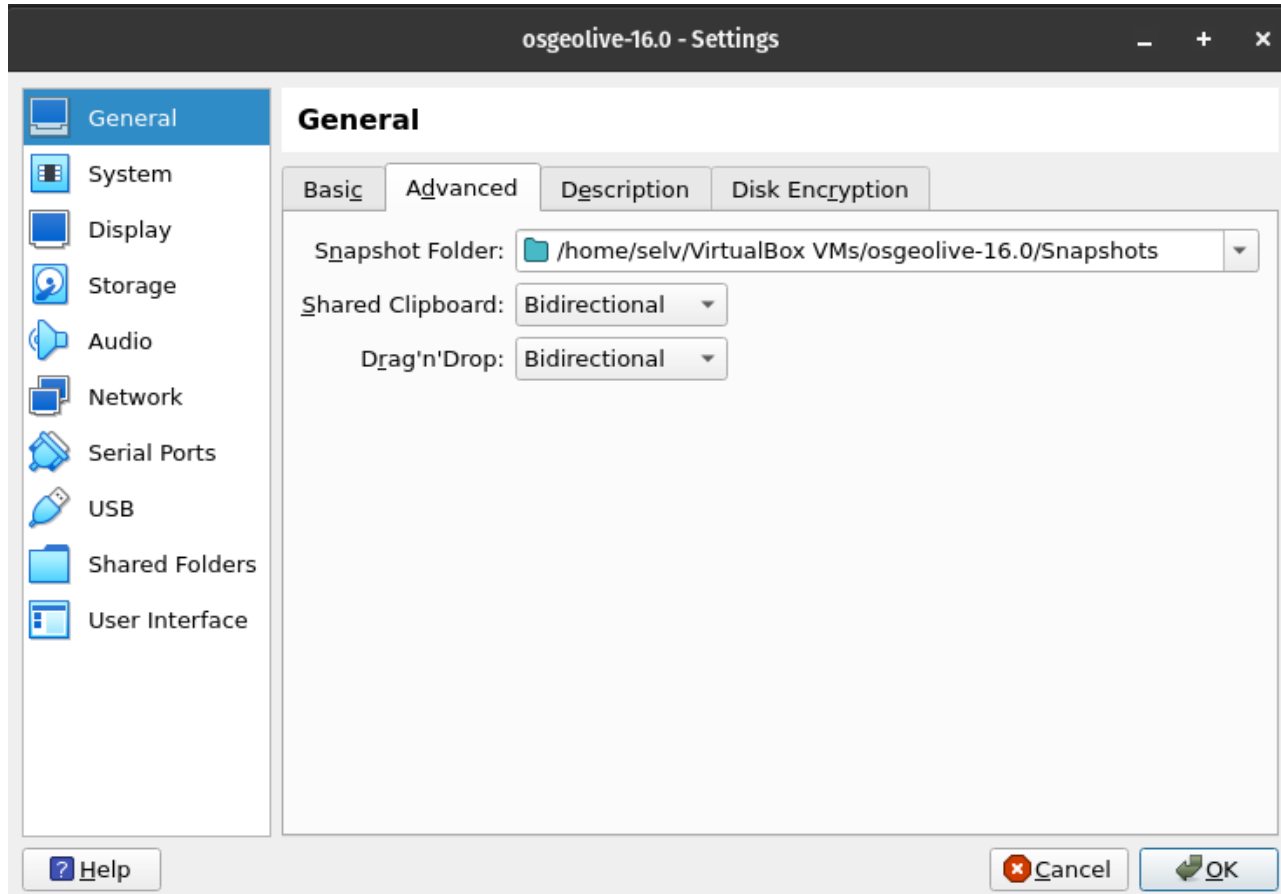
Adjust the settings



Virtual Machine settings

In VirtualBox → setting → General

Set Shared Clipboard and Drag and Drop to Bidirectional Optional.
Do not change the Snapshot Folder

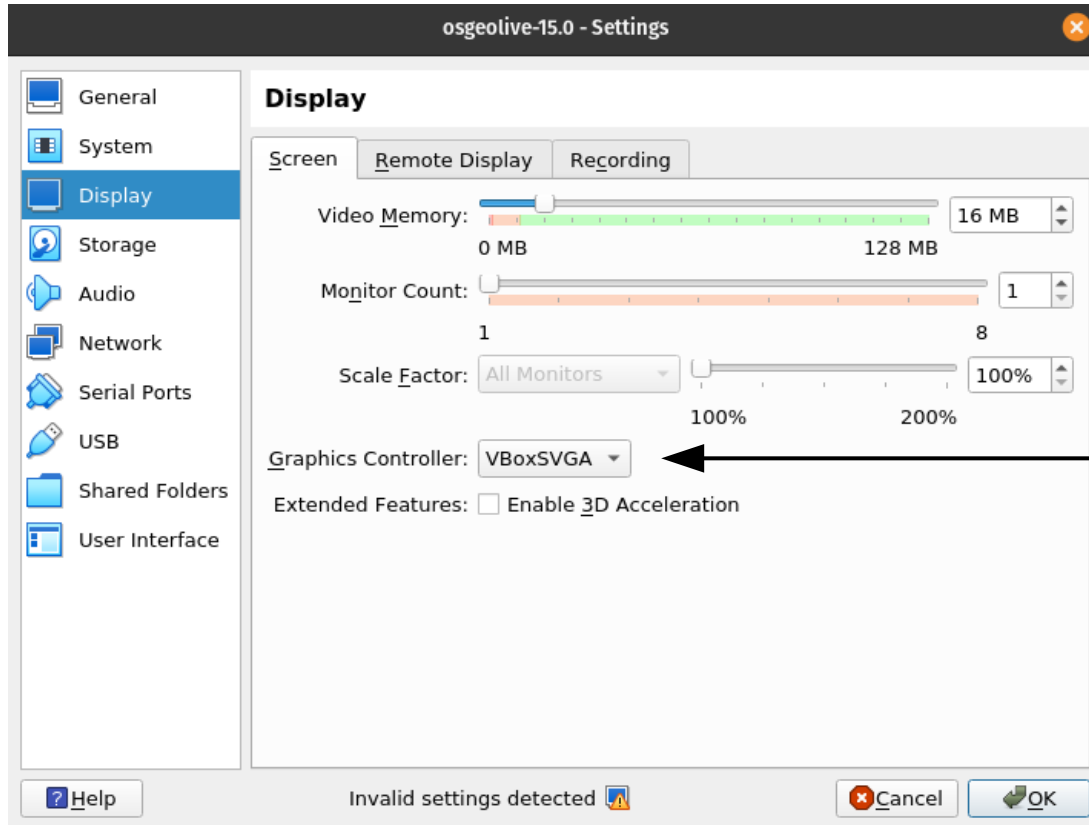


Virtual Machine settings

In VirtualBox → setting → General

Set the Graphics Controller to allow the “Auto-resize Guest Display”.

If the VM screen resolutions will be too small try to change the Graphics Controller to adjust the “Auto-resize Guest Display”.



Select VBoxSVGA

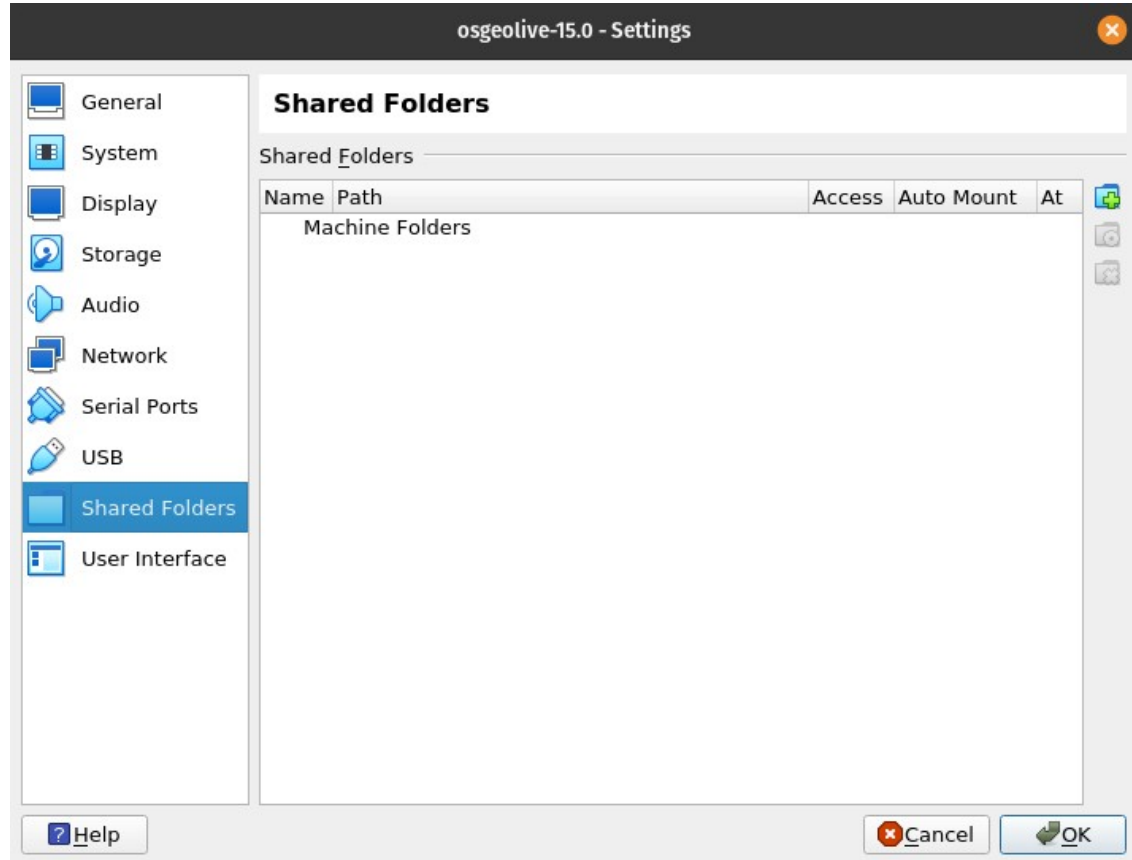
Sharing folder

Create an empty folder named LVM_shared in your OS

MAC OS X: /Users/*yourname*/LVM_shared

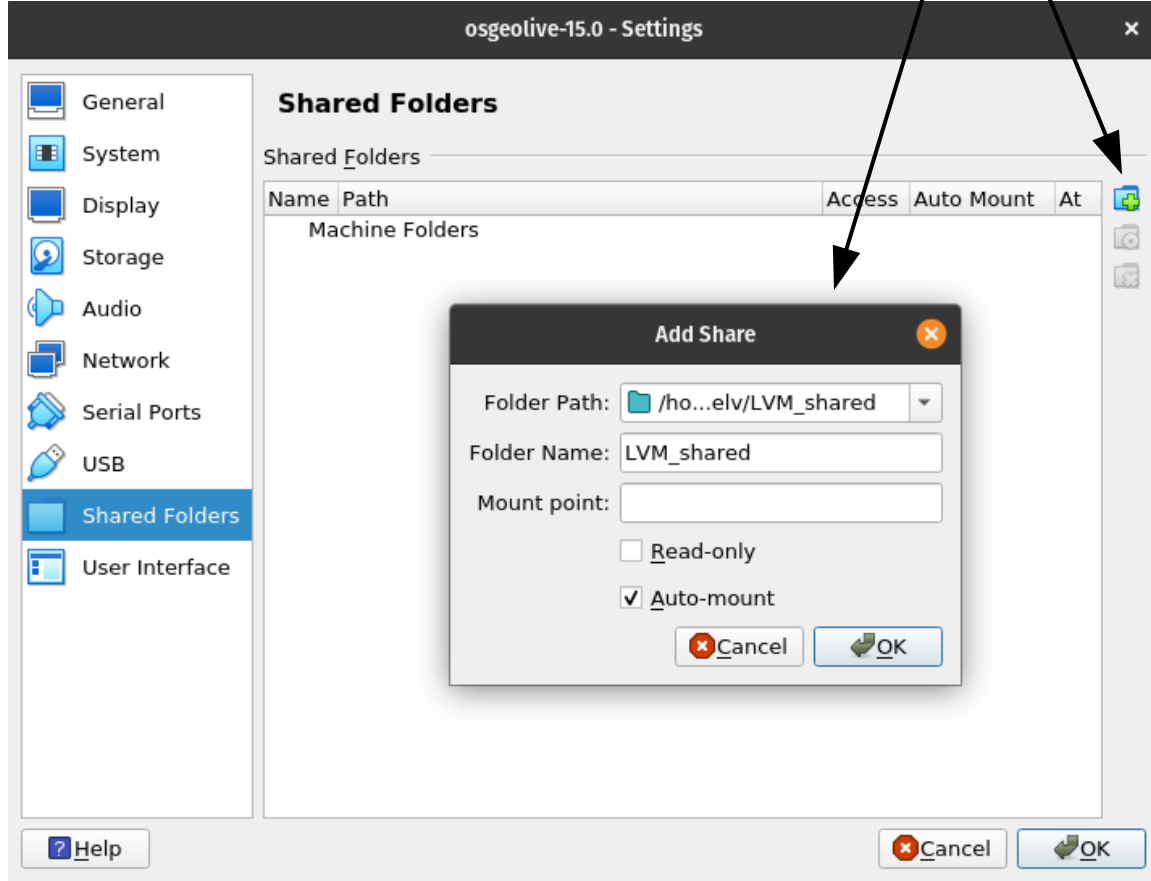
Windows OS: C:\Users*yourname*\Documents\LVM_shared

Linux: /home/*yourname*/LVM_shared



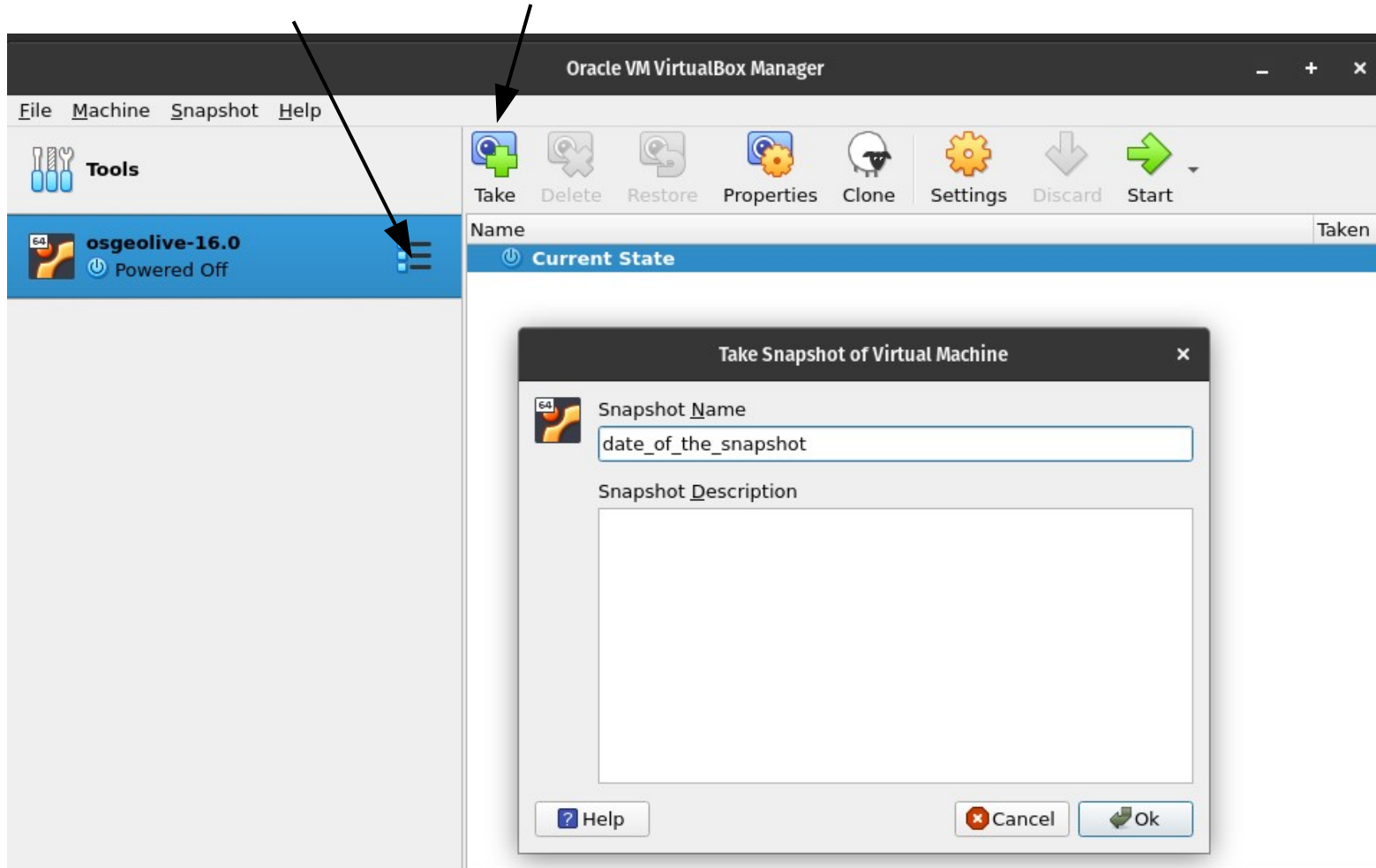
Sharing folder

Add new shared folder in VirtualBox → setting → shared folders →
Navigate to the host OS LVM_shared folder.
Activate the Auto-mount option and click OK



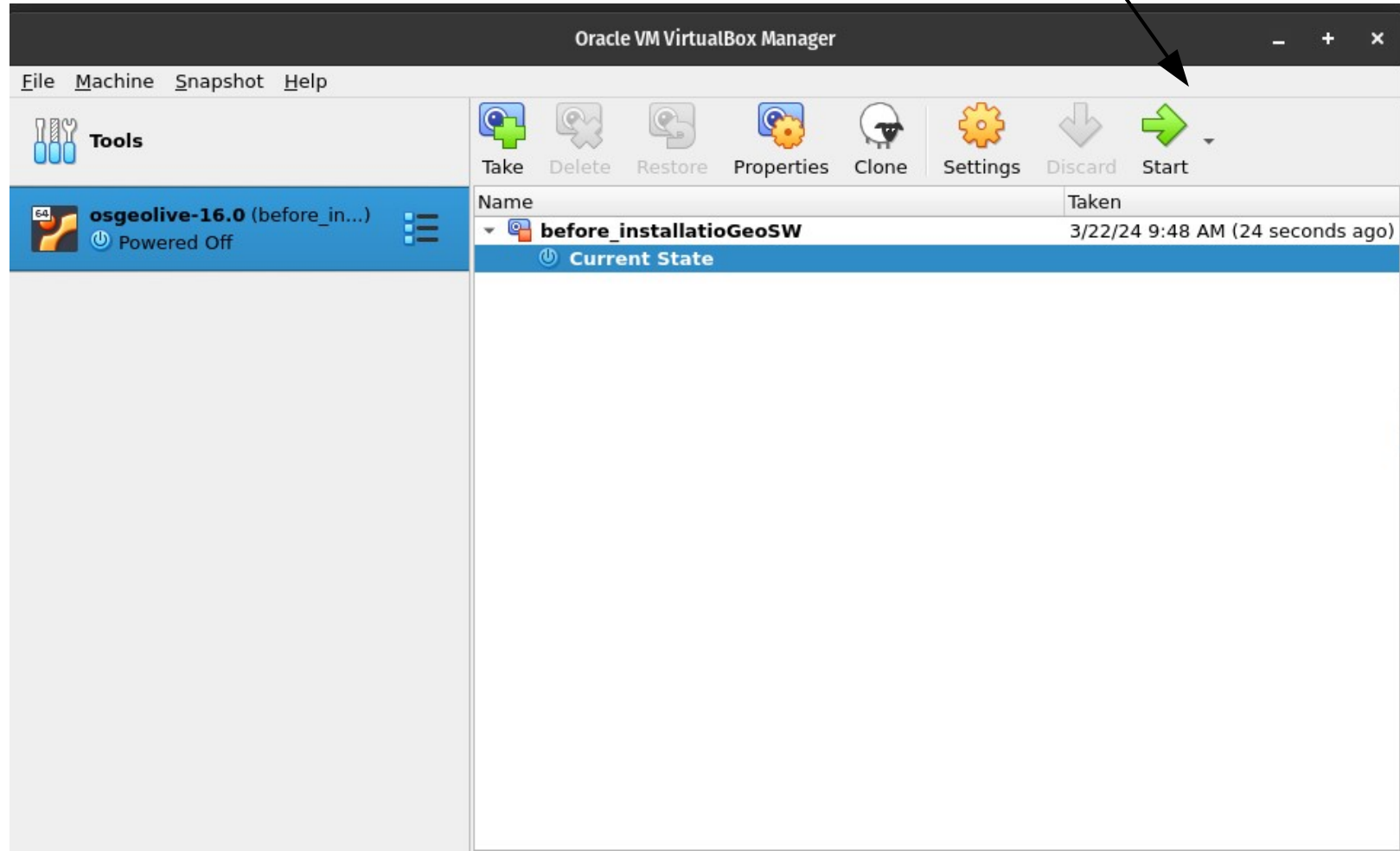
Snapshots

Create a snapshots of the current version. It will be useful for going back if something is not working

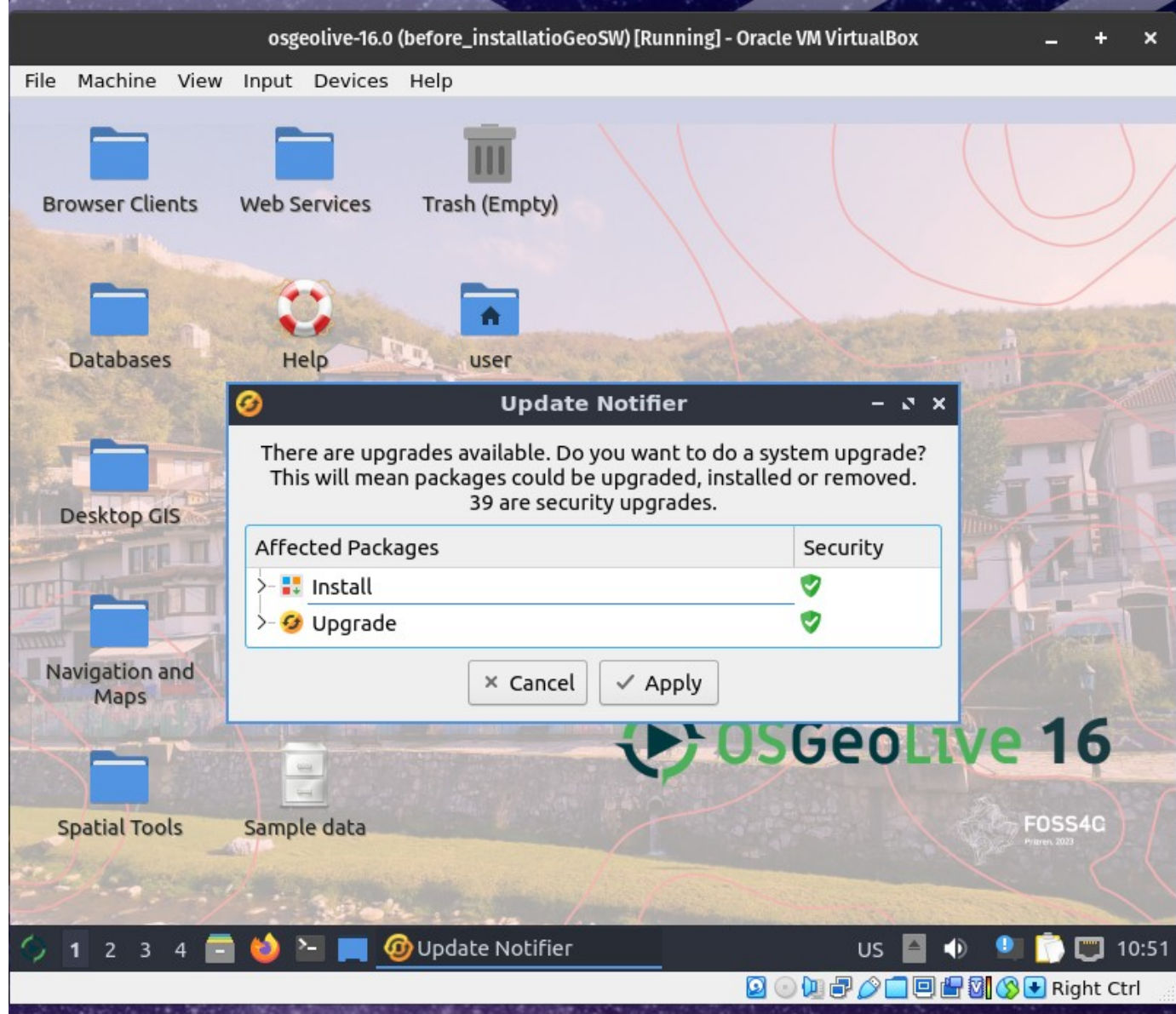


Start the Virtual Machine

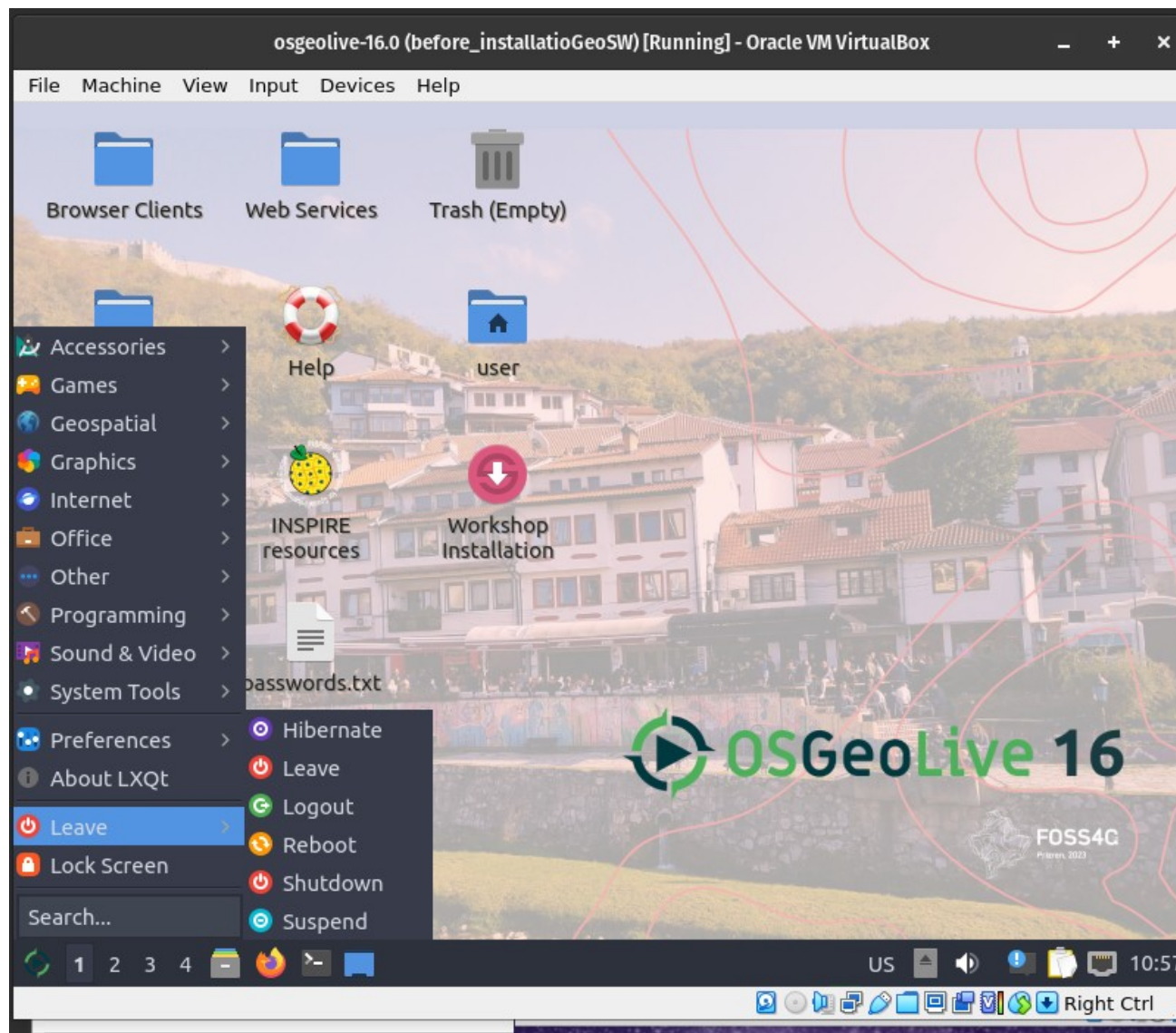
At this point you can press the start arrow to boot the Linux Virtual Machine



At this point the VM has been properly installed. Proceed with the update of the OS.
The OS password is: user



Always shutdown the VM clicking:
Green Icon > Leave > Shutdown




Browser Clients
Help
Workshop
Installation
Databases
INSPIRE
resources**Databases**

Location: /home/user/Desktop

File type: folder

Last modified: 11/17/23 1:33 PM




Last accessed: 11/26/23 1:24 PM

Created: 11/16/23 10:06 PM

Owner: user

Group: user

Desktop


Navigation and
Maps
Sample data
Spatial Tools
Trash (Empty)
Web Services
user OSGeoLive 16 FOSS4G
Prague, 2023