OSGeo-Live Quickstart for Running in a Virtual Machine

This Quick Start describes one way to run OSGeo-Live within a VirtualBox virtual machine. For other methods, follow links from the "See Also" section below.

Downloads

First we need to install the software to play virtual machines on your computer. We'll use the open source software VirtualBox.

- ➢ Go to the VirtualBox website: <u>http://www.virtualbox.org</u>
- Click on the button "Download VirtualBox 5.1"
- Download the right version for your platform

States provides	VirtualBox
	Download VirtualBox
About Screenshots Downloads	Here, you will find links to VirtualBox binaries and its source code. VirtualBox binaries By developeding, you agree to the terms and conditions of the respective license
Documentation End-user docs Technical docs Contribute	• VirtualBox platform packages. The binaries are released under the terms of the GPL version 2. • VirtualBox 5.1.4 for Windows hosts ⇒ x86/amd64 • VirtualBox 5.1.4 for Linux hosts • VirtualBox 5.1.4 for Linux hosts • VirtualBox 5.1.4 for Solaris hosts ⇒ amd64 • VirtualBox 5.1.4 for Solaris hosts ⇒ amd64
Community	 VirtualBox 5.1.4 Oracle VM VirtualBox Extension Pack ⇒ All supported platforms Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to the Extension Pack. The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL). Please install the extension pack with the same version as your installed version of VirtualBox: If you are using VirtualBox 5.0.26, please download the extension pack ⇒ here. If you are using VirtualBox 4.3.38, please download the extension pack ⇒ here.

- Download the VirtualBox 5.1.4 Oracle VM VirtualBox Extension Pack from the same web page
- Install VirtualBox
- Copy the OSGeo Virtual disk file (vmdk) from the USB stick to your harddrive and unzip the file (using <u>7zip</u>).

Installing VirtualBox

- Install VirtualBox
- ➢ Install the Extension Pack:

○ In the menu of VirtualBox choose File \rightarrow Preferences...



Choose Extensions and browse to the downloaded Extension Pack using the
 button. After opening it will add the extension to the list as shown below.

& Virt	ualBox - Prefe	erences		2	x		
	General	Exten	sions				
	Input Extension Packages						
G	Update	Active	Name	Version			
	-	4	Oracle VM VirtualBox Extension Pack	5.1.4r110228			
	Language						
	Display						
₽	Network						
	Extensions						
	Proxy						
				OK Cance	<u>ا</u>		

Create a Virtual Machine

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



Enter a name such as OSGeo-Live, and choose Linux as the "Operating system", and Ubuntu (64 bit) as the "Version".

	and the second s	? X
G Create	Virtual Machine	
Name	and operating system	
Please d of opera through	hoose a descriptive name for the new virtual machine and sele ting system you intend to install on it. The name you choose v out VirtualBox to identify this machine.	ect the type will be used
Name:	🔟 OSGeo-Live	-
Type:	Linux	- 64
Version:	Ubuntu (64-bit)	_
	Expert Mode Next (Cancel

If you don't see the 64 bit option, than contact the lecturer. Some settings need to be changed in the BIOS of your computer.

Click Next

In the next screen set the memory to 1024 MB (or more if your host computer has more than 4GB).

Memory s	size			
Select the an machine.	nount of memory	(RAM) in megabytes i	to be allocated to	the virtual
The recomme	ended memory siz	e is 1024 MB.		
				1024 🚖
4 MB			4096 MB	

Continue to the next screen and choose "Use an existing virtual hard disk file". Now click on the \square button to browse to where you saved the osgeo-live-vm-10.0.vmdk file. Select this file and press Create.



Once the VM is created, click on the Settings button. In the "User Interface" section, select "Show at top of screen" for the Mini toolbar.

🙆 os	Geo-Live 10 - Set	tings ? ×
	General	User Interface
F	System	File Machine View Input Devices Debug Help
	Display	Mini ToolBar: 📝 Show in Full-screen/Seamless
	Storage	Show at Top of Screen
	Audio	
₽	Network	
	Serial Ports	
Ø	USB	
	Shared Folders	
	User Interface	
		OK Cancel

Go to the "Display" section and increase video memory to 32 or 64 MB.

OSGeo-Live 10 - Set	tings	? ×
📃 General	Display	
System	Screen Remote Display Video Capture	
📃 Display	Video Memory:	64 MB 🌲
5 Storage	0 MB 128 MB	1
Audio		1
P Network	Scale Factor:	100% 🚖
Serial Ports	Acceleration: Enable <u>3</u> D Acceleration	
🌽 USB	Enable <u>2</u> D Video Acceleration	
Shared Folders		
User Interface		
	ОК	Cancel

In addition, move to the "Shared Folders" section, and click the "Add folder" (green + icon on the right) to find a directory on your host computer that you wish to share inside the VM. In the SNIEAU training we will store the course data in a folder SNIEAU on you hard disk.

🥝 Add Share	? ×
Folder Path:	🐌 D:\SNIEAU 🔻
Folder Name:	SNIEAU
	Read-only
	Auto-mount
	OK Cancel

🙆 ose	õeo-Live <mark>10 -</mark> Sett	ings				8	x
	General	Shared Folde	ers				
	System	<u>Folders List</u>					
	Display	Name	Path		Auto-mount	Access	-
	Storage	 Machine Fo SNIEAU 	lders D:\SNIEAU		Yes	Full	
	Audio						
₽	Network						
	Serial Ports						
	USB						
	Shared Folders						
	User Interface						
				(OK	Cance	<u>:</u>

You can select to make the shared folder read only, and auto-mounted. Once the "Folder path" and "Folder name" are defined, click OK, and again OK to finish and close the settings window.

Oracle VM VirtualBox Manager	a falsal date /E. out over /E. or Reals and a	
<u>F</u> ile <u>M</u> achine <u>H</u> elp		
New Settings Discard Show		Details 💿 Snapshots
Image: Security Show OSGeo-Live 10	General Name: OSGeo-Live 10 Operating System: Ubuntu (64-bit) System Base Memory: 1024 MB Boot Order: Floppy, Optical, Hard Disk Acceleration: VT-x/AMD-V, Nested Paging, KVM Paravirtualization Display Video Memory: 64 MB Remote Desktop Server: Disabled	
	Video Capture: Disabled Video Capture: Disabled Storage Controller: IDE IDE Secondary Master: [Optical Drive] Empty Controller: SATA osgeo-live-10.0.vmdk (Normal, 25.00 G) Audio Host Driver: Windows DirectSound Controller: ICH AC97	3B)

Running the Virtual Machine and mounting a shared folder

Now bootup the VM by clicking the Start button \Rightarrow .

Once the OSGeo system comes up, open a terminal window. You find a button with >_ at the



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In the terminal window, first make a folder SNIEAU by typing:

user@osgeolive:~\$ mkdir GIS

bottom left of your screen

user@osgeolive:~\$ sudo mount -t vboxsf SNIEAU /home/user/SNIEAU

Press <Enter> after each command. It will ask a password. The password is: user. Your screen will look like this:



Now files on your host machine in the chosen folder will also be available in the VM in the "SNIEAU" folder in user's home directory.