

Kubuntu Linux on VirtualBox

Installation guide



Giorgio Agugiaro

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Brief overview of Oracle VM VirtualBox

VirtualBox overview

Kubuntu overview

Stepwise setup

Software removal

- In a nutshell:
 - It is a virtualiser for x86 hardware: it allows to create and manage guest *virtual* machines running (very often) a different operating system (OS) than the one on the physical host machine
 - It runs on Windows, Linux, macOS, and Solaris hosts
 - <https://www.virtualbox.org/manual/ch01.html#hostossupport>
 - It supports many guest operating systems (Windows, DOS/Windows 3.x, Linux, Solaris and OpenSolaris, OS/2, OpenBSD, NetBSD and FreeBSD)
 - <https://www.virtualbox.org/manual/ch03.html#guestossupport>
 - It is available as open-source software
 - For some guest operating systems, a "Guest Additions" package of device drivers and system applications is available
 - The drivers in the "Guest additions" may be however proprietary/closed-source software
- More details:
 - <https://www.virtualbox.org/wiki/Documentation>
 - <https://en.wikipedia.org/wiki/VirtualBox>

Some terminology

- **Host operating system (host OS).** This is the OS of the physical computer on which Oracle VM VirtualBox was installed. There are versions of Oracle VM VirtualBox for Windows, macOS, Linux, and Oracle Solaris hosts
- **Guest operating system (guest OS).** This is the OS that is running inside the virtual machine. Theoretically, Oracle VM VirtualBox can run any x86 OS such as DOS, Windows, OS/2, FreeBSD, and OpenBSD
- **Virtual machine (VM).** This is the environment that Oracle VM VirtualBox creates for your guest OS while it is running. In other words, you run your guest OS in a VM. Normally, a VM is shown as a window on your computer's desktop. Depending on which of the various frontends of Oracle VM VirtualBox you use, the VM might be shown in full screen mode or remotely on another computer. Internally, Oracle VM VirtualBox treats a VM as a set of parameters that specify its behavior. Some parameters describe hardware settings, such as the amount of memory and number of CPUs assigned. Other parameters describe the state information, such as whether the VM is running or saved
- **Guest Additions.** This refers to special software packages which are shipped with Oracle VM VirtualBox but designed to be installed inside a VM to improve performance of the guest OS and to add extra features, such as, for example, shared folders, shared clipboard, better video support, etc.

Source: text slightly adapted from <https://www.virtualbox.org/manual/ch01.html#virtintro>

VirtualBox overview

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The screenshot shows the homepage of VirtualBox.org. At the top, there's a navigation bar with links for "Search", "Login", "Preferences", "Start Page", "Index", and "History". A search bar is also present. On the left side, there's a sidebar with links for "About", "Screenshots", "Downloads", "Documentation", "End-user docs", "Technical docs", "Contribute", and "Community". The main content area features a large blue "VirtualBox" logo at the top, followed by the heading "Welcome to VirtualBox.org!". Below this, there's a paragraph about the product's capabilities and supported guest operating systems. Further down, there's another paragraph about the product's development and community support. In the bottom right corner of the main content area, there's a large blue button with white text that says "Download VirtualBox 7.0". To the right of the main content, there's a yellow sidebar titled "News Flash" containing a list of recent news items and notices.

VirtualBox

Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 [virtualization](#) product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the [GNU General Public License \(GPL\)](#) version 3. See "[About VirtualBox](#)" for an introduction.

Presently, VirtualBox runs on Windows, Linux, macOS, and Solaris hosts and supports a large number of [guest operating systems](#) including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, 7, 8, Windows 10 and Windows 11), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x, 4.x, 5.x and 6.x), Solaris and OpenSolaris, OS/2, OpenBSD, NetBSD and FreeBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

Download VirtualBox 7.0

Hot picks:

- Pre-built virtual machines for developers at [Oracle Tech Network](#)
- [Hyperbox](#) Open-source Virtual Infrastructure Manager [project site](#)

News Flash

- New July 16th, 2024**
VirtualBox 7.0.20 released!
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New May 3rd, 2024**
VirtualBox 7.0.18 released!
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New April 16th, 2024**
VirtualBox 7.0.16 released!
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- Notice March 21th, 2024**
Change of login server.
Starting today, Oracle Single Sign On will ask for your account credentials at [signon.oracle.com](#) and the username and password are now have to be entered on separate pages.



Brief overview of Kubuntu Linux

VirtualBox overview
Kubuntu overview
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- It is a Linux distribution based on Ubuntu that uses the KDE Plasma Desktop Environment instead of Ubuntu's default GNOME
- The underlying system is however the same
- It follows the same development cycle of Ubuntu
- Latest LTS version: 24.04 LTS (as of July 2024)

Comparison Ubuntu/Kubuntu

Software	Ubuntu	Kubuntu
Kernel and core	Linux kernel and Ubuntu core	
Display server	X.Org Server and Wayland	
Sound		PipeWire
Multimedia	Totem and Rhythmbox	VLC and Elisa
Window manager	Mutter	KWin
Desktop	GNOME	Plasma Desktop
Primary toolkit	GTK	Qt
Browser		Firefox
Office suite		LibreOffice
Email and PIM		Thunderbird



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Kubuntu on VirtualBox on Windows

Requirements

- Reasonably powerful **x86 hardware**. Any recent Intel or AMD processor will do
- **Windows 10 64bit** as host operating system (32bit not supported anymore)
 - Circa 250 MB of disk space for the installation of Oracle VM VirtualBox
 - Circa 50 GB of disk space for the installation of the guest OS (e.g. Kubuntu)
- The latest **Microsoft Visual C++ Redistributable** (ca. 24 MB)
 - <https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170>
- **Oracle VM VirtualBox** installer (ca. 107 MB)
 - <https://www.virtualbox.org/wiki/Downloads>
 - <https://www.oracle.com/virtualization/technologies/vm/downloads/virtualbox-downloads.html>
- **Oracle Guest Additions .iso file** (ca. 52 MB)
 - Generally, already included in the VM VirtualBox installer. Otherwise:
 - <https://www.oracle.com/virtualization/technologies/vm/downloads/virtualbox-downloads.html>
- **Host operating system .iso file**, (e.g. Kubuntu, ca. 4.3 GB)
 - <https://kubuntu.org/getkubuntu>
- Some patience, coffee/tee and some good biscuits...



Kubuntu on VirtualBox on Windows

The next slides refer to the following hardware and software configuration:

- **Host OS:** Windows 10 64bit, v. 22H2



- **Virtual Machine:** Oracle VM VirtualBox v. 7.20



- **Guest OS:** Kubuntu v. **22.04.4 LTS**

Beware: the latest Kubuntu **2024.04 LTS** is currently not officially supported by VirtualBox (yet)



Nota bene: the overall installation process should work also for Windows 11 as host and other (Ubuntu-like) Linux distributions as guests!

Kubuntu on VirtualBox on Windows

Procedure overview:

- 1) Download the software (VirtualBox installer, Kubuntu, etc.)
- 2) Install VirtualBox
- 3) Create a Virtual Machine & install Kubuntu
- 4) Initial configuration of Kubuntu

Done! 😊

Kubuntu on VirtualBox on Windows

Procedure overview:

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Kubuntu on VirtualBox on Windows

Procedure overview:

1) Download the software (VirtualBox installer, Kubuntu, etc.)

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4) Initial configuration of Kubuntu

Done! 😊

2) Install VirtualBox

Before starting, check that:

- You have some 250 MB of disk space for Oracle VM VirtualBox
- You have administrator privileges on the host machine
- Depending on your machine, you *may* need to install the latest **Microsoft Visual C++ Redistributable** version (if so, you will be informed when trying to install VM VirtualBox)
- Other than this, installing VM VirtualBox is rather simple and straightforward, just like any other Windows program.

The following slides show a very quick overview of the installation process.

2) Install VirtualBox

If required, download and install the **Microsoft Visual C++ Redistributable**

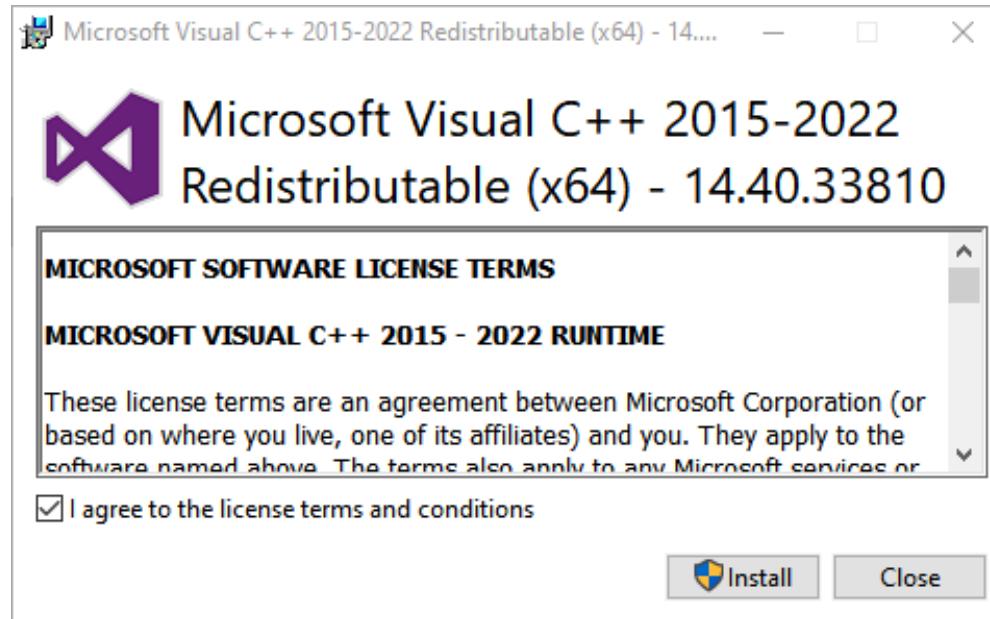
VirtualBox overview

Kubuntu overview

Stepwise setup

- Download software
- **Install VirtualBox**
- Create a VM
- Install Kubuntu
- Initial configuration

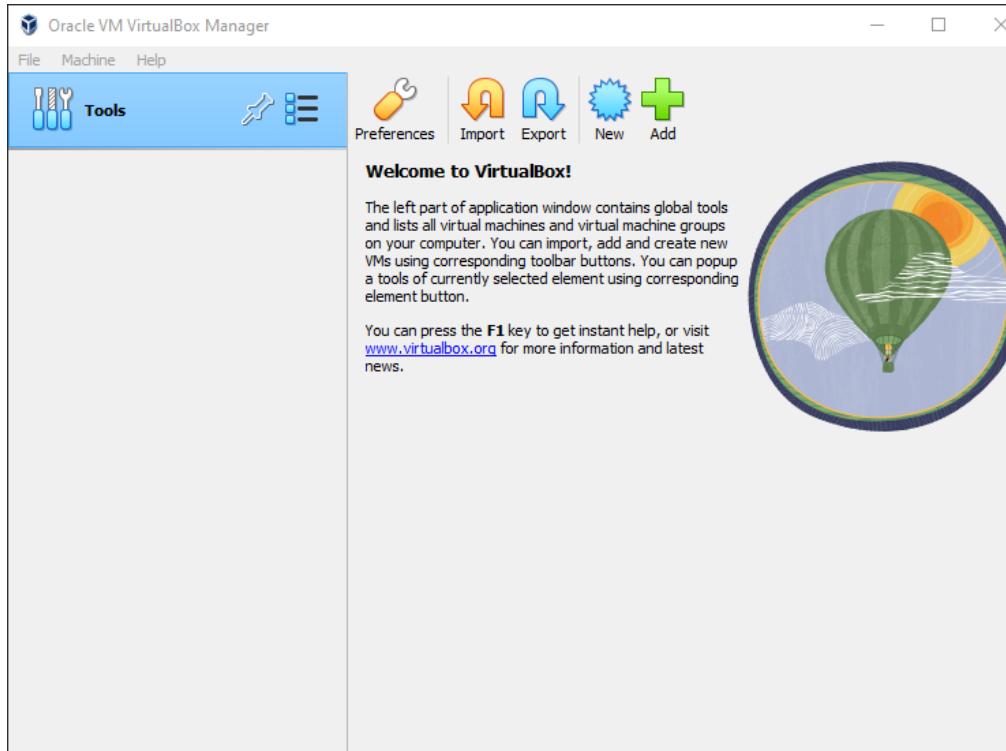
Software removal



2) Install VirtualBox

Afterwards, simply install Oracle VM VirtualBox and run it.

The **VirtualBox Manager** window will be loaded.



Kubuntu on VirtualBox on Windows

Procedure overview:

- 1) Download VirtualBox installer and the Kubuntu ISO
- 2) Install VirtualBox
- 3) **Create a Virtual Machine & install Kubuntu**
 - Preliminary notes
 - Automatic approach
 - Manual approach
- 4) Initial configuration of Kubuntu

Done! 😊

Kubuntu on VirtualBox on Windows

Procedure overview:

- 1) Download VirtualBox installer and the Kubuntu ISO
- 2) Install VirtualBox
- 3) Create a Virtual Machine & install Kubuntu
 - [Preliminary notes](#)
 - Automatic approach
 - Manual approach
- 4) Initial configuration of Kubuntu

Done! 😊

3) Create a Virtual Machine

Before starting, check that you have sufficient space to install the Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
- Initial configuration
- Software removal

Example: Kubuntu 2022.04 will require circa 20 GB disk drive just for the OS. Hence, 40 to 50 GB of free space for the whole VM is a good starting point.

A Virtual Machine will be contained in a ***virtual hard disk*** (see next slides).

From the point of view of the host machine, you will only see a "big file".

Nothing else needs to be done (e.g. no disk partitioning).

3) Create a Virtual Machine

VirtualBox offers **two alternative ways to create a VM** and install the guest OS: automatically (aka "unattended installation"), or manually. The "unattended installation" is the default one.

VirtualBox overview

Kubuntu overview

Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
- Initial configuration
- Software removal

During the **unattended installation**:

- The guest OS installation starts automatically and is carried out *without* user intervention
- The user account is created automatically
- The Guest Additions are installed automatically

BUT: due to a documented bug in the installation process (the user does not get *sudo* rights), some extra operations must be carried out manually right after the installation to fix the bug.

During the **manual installation**:

- The guest OS installation must be started manually and runs interactively
- The Guest Additions must be installed manually
- **BUT:** the above-mentioned bug does not occur

The following slides show cover **both installation methods**, as well as how to solve the problem during the unattended installation.

Kubuntu on VirtualBox on Windows

Procedure overview:

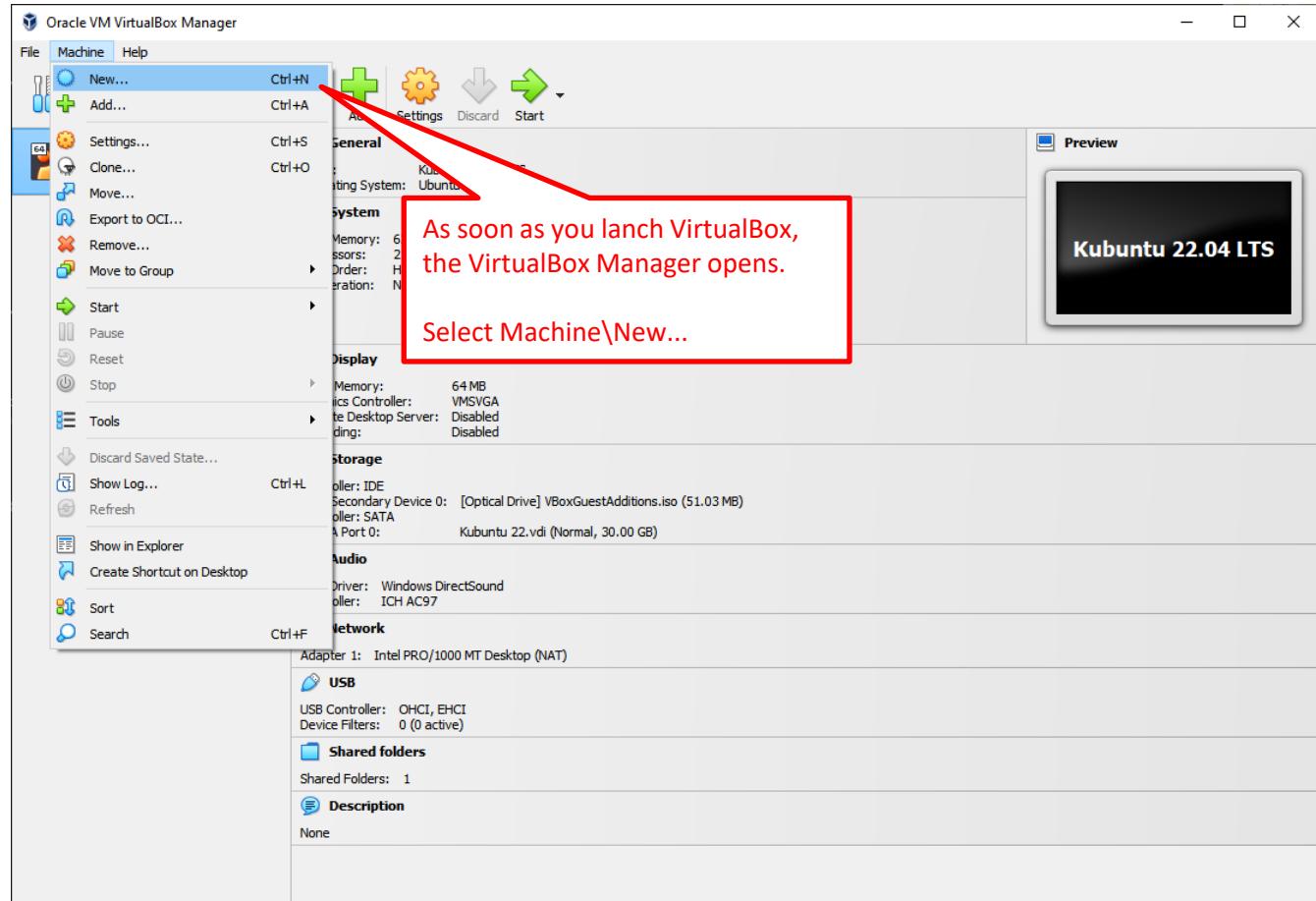
- 1) Download the software (VirtualBox installer, Kubuntu, etc.)
- 2) Install VirtualBox
- 3) **Create a Virtual Machine & install Kubuntu**
 - Preliminary notes
 - [Automatic approach \(go to next slide\)](#)
 - Manual approach (go to [slide 44](#))
- 4) Initial configuration of Kubuntu

Done! 😊

3) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
- Initial configuration
- Software removal

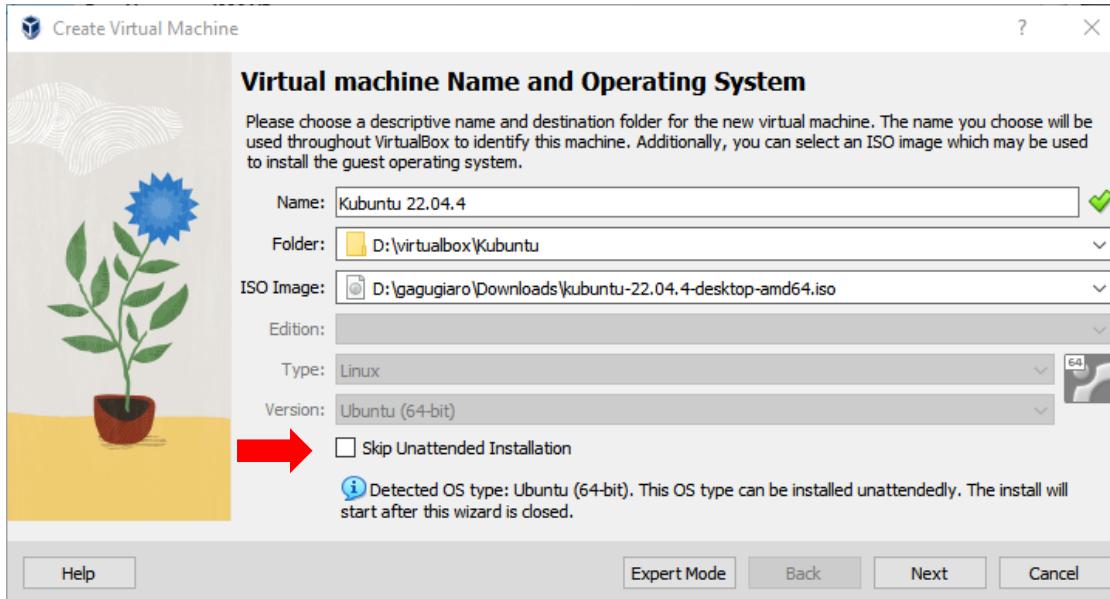


3a) Create a Virtual Machine

VirtualBox overview
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- Download software
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Software removal



The Create Virtual Machine window opens.

You must enter the name of the Virtual Machine (you choose the name), the installation folder, and the path to the .iso file of the guest OS (here: Kubuntu 2022.04)

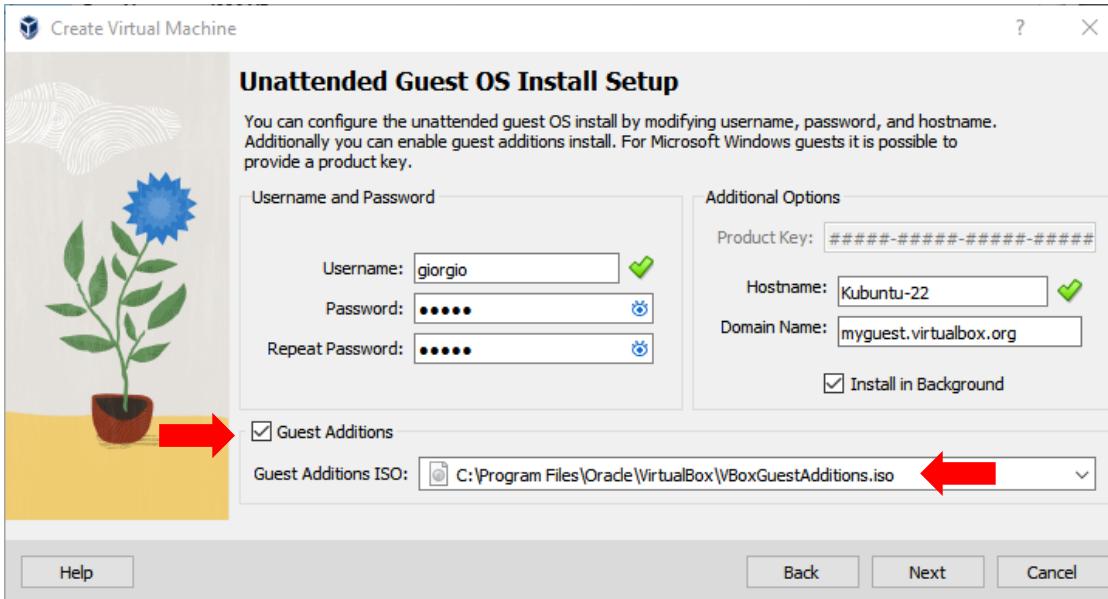
Check that the "Skip Unattended Installation" is NOT checked

3a) Create a Virtual Machine

VirtualBox overview
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Set the **username** and the **password** of your Linux user account (on the left).

You can also define the hostname of the Linux machine, and set the domain name (on the right, if necessary).

Do NOT forget to provide the path to the **VBoxGuestAdditions.iso**

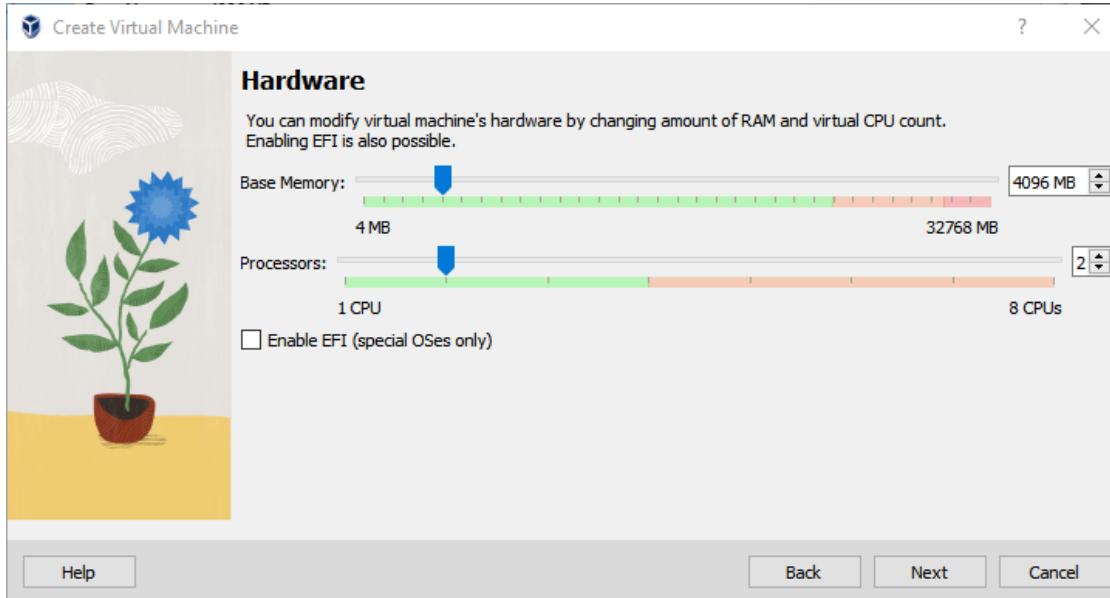
The .iso file is shipped with VirtualBox as can be found in its installation folder, generally: **C:\Program Files\Oracle\VirtualBox**

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
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- Download software
- Install VirtualBox
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Software removal



Define the hardware resources to allocate to the new VM, i.e.:

The **memory (RAM)** allocated to the VM

- 4 GB should suffice (minimum is 2 GB)

And the **number of processors**

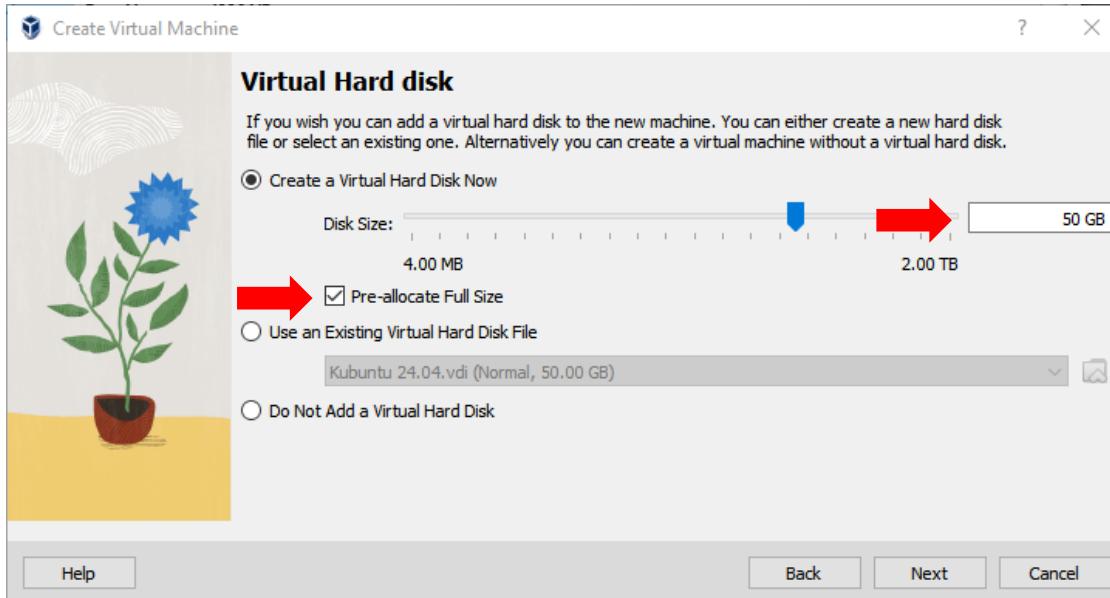
- 2 should suffice

These settings can be changed, if necessary, also after the VM has been created.

3a) Create a Virtual Machine

VirtualBox overview
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- Download software
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Define the size of the **virtual hard disk** containing the VM.

From the point of view of the host, the whole VM will be "contained" in that virtual hard disk, which actually is just a big file (see next slides).

For Kubuntu 2022.04, you can set 50 GB.

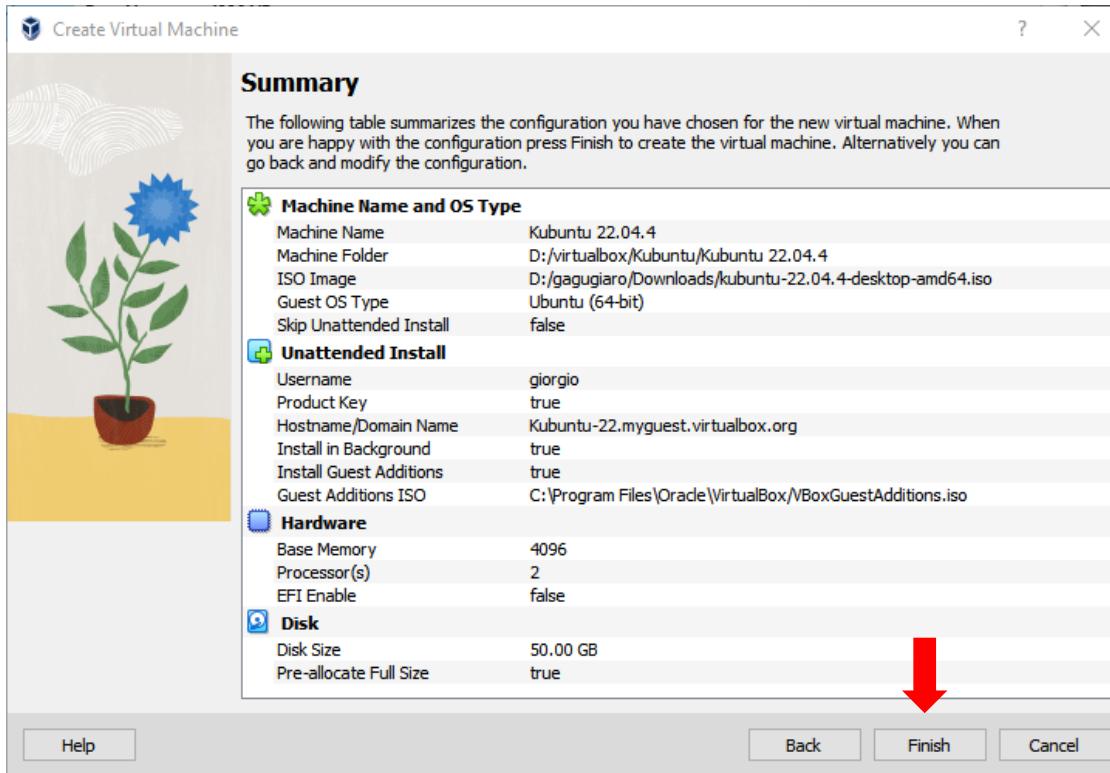
Suggestion: choose to **pre-allocate the full size**.

3a) Create a Virtual Machine

VirtualBox overview
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- Download software
- Install VirtualBox
- **Create a VM**
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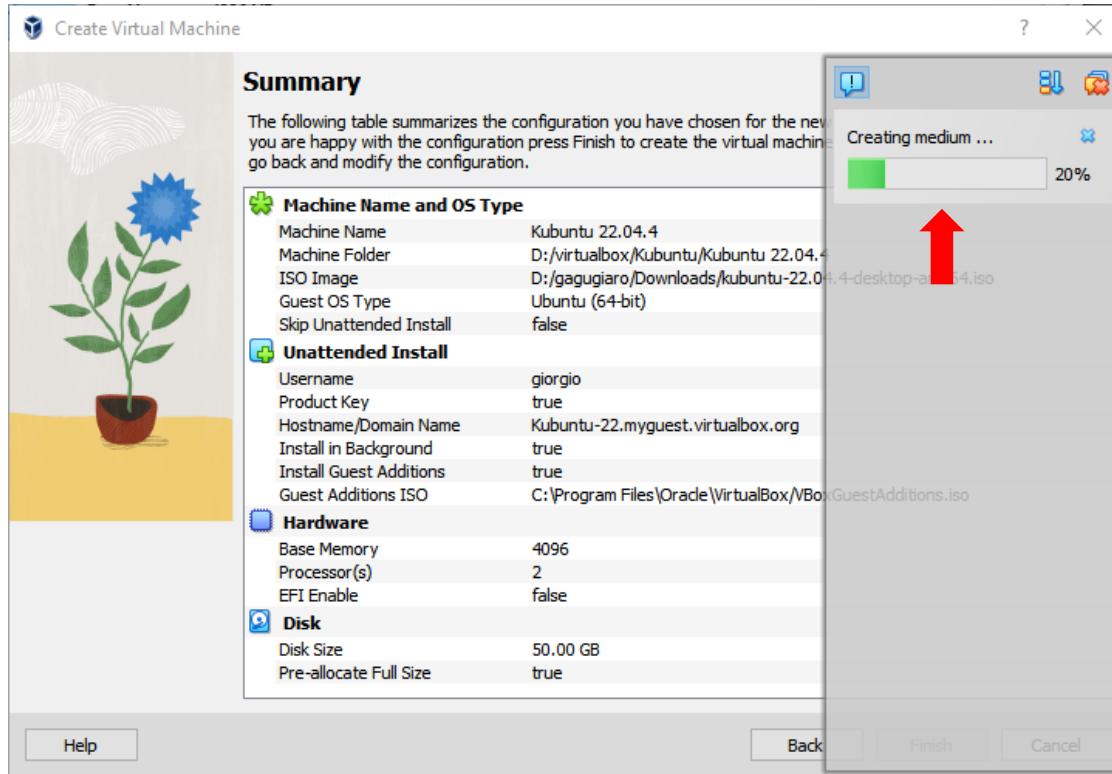
Before continuing with the installation of the guest OS, you are offered a summary.

Check that all is fine, then simply click on "Finish"

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

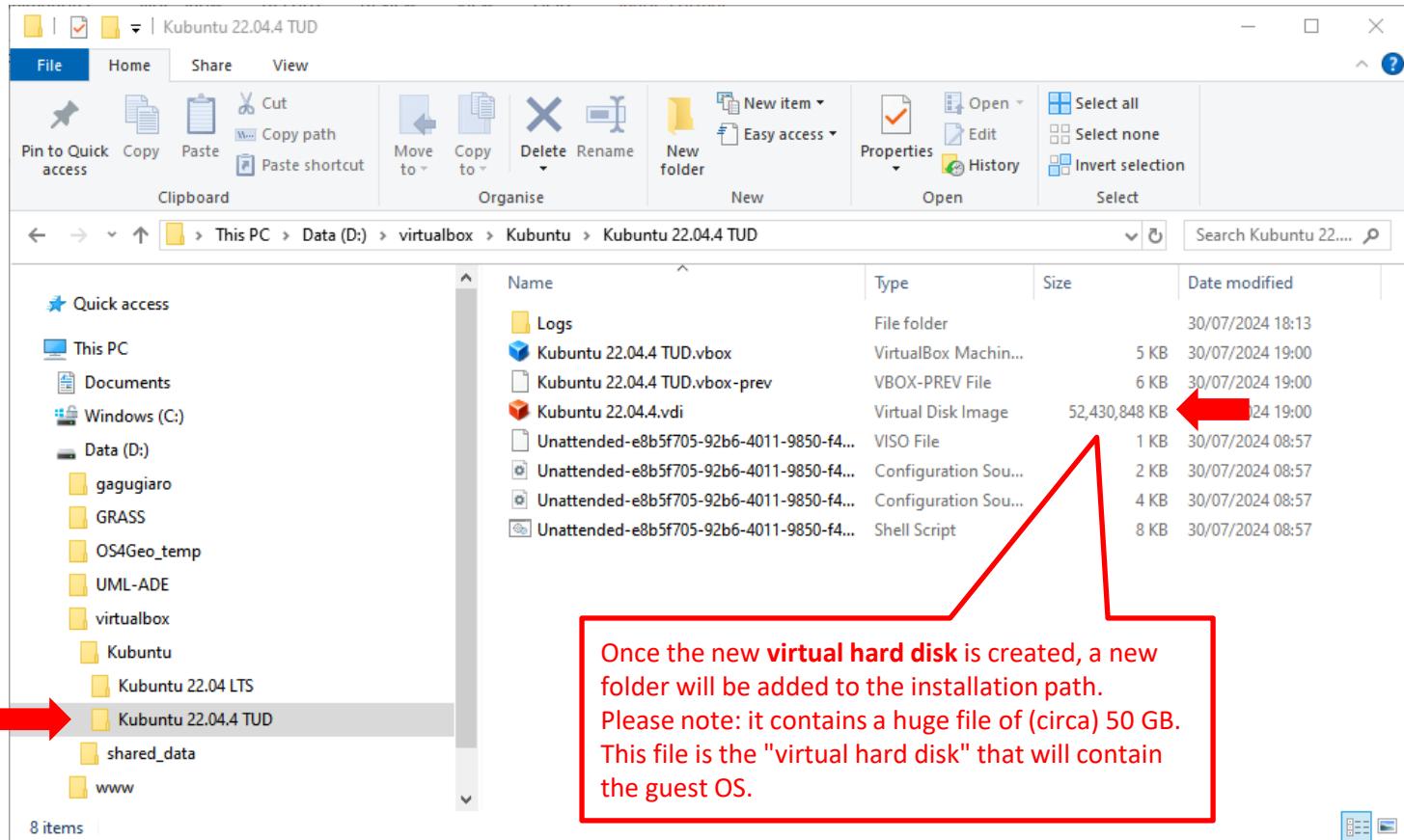
- Download software
- Install VirtualBox
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The creation process of the new virtual hard disk starts.

3a) Create a Virtual Machine

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 - Download software
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- [Software removal](#)



The screenshot shows a Windows File Explorer window with the following details:

Path: This PC > Data (D:) > virtualbox > Kubuntu > Kubuntu 22.04.4 TUD

File Explorer View:

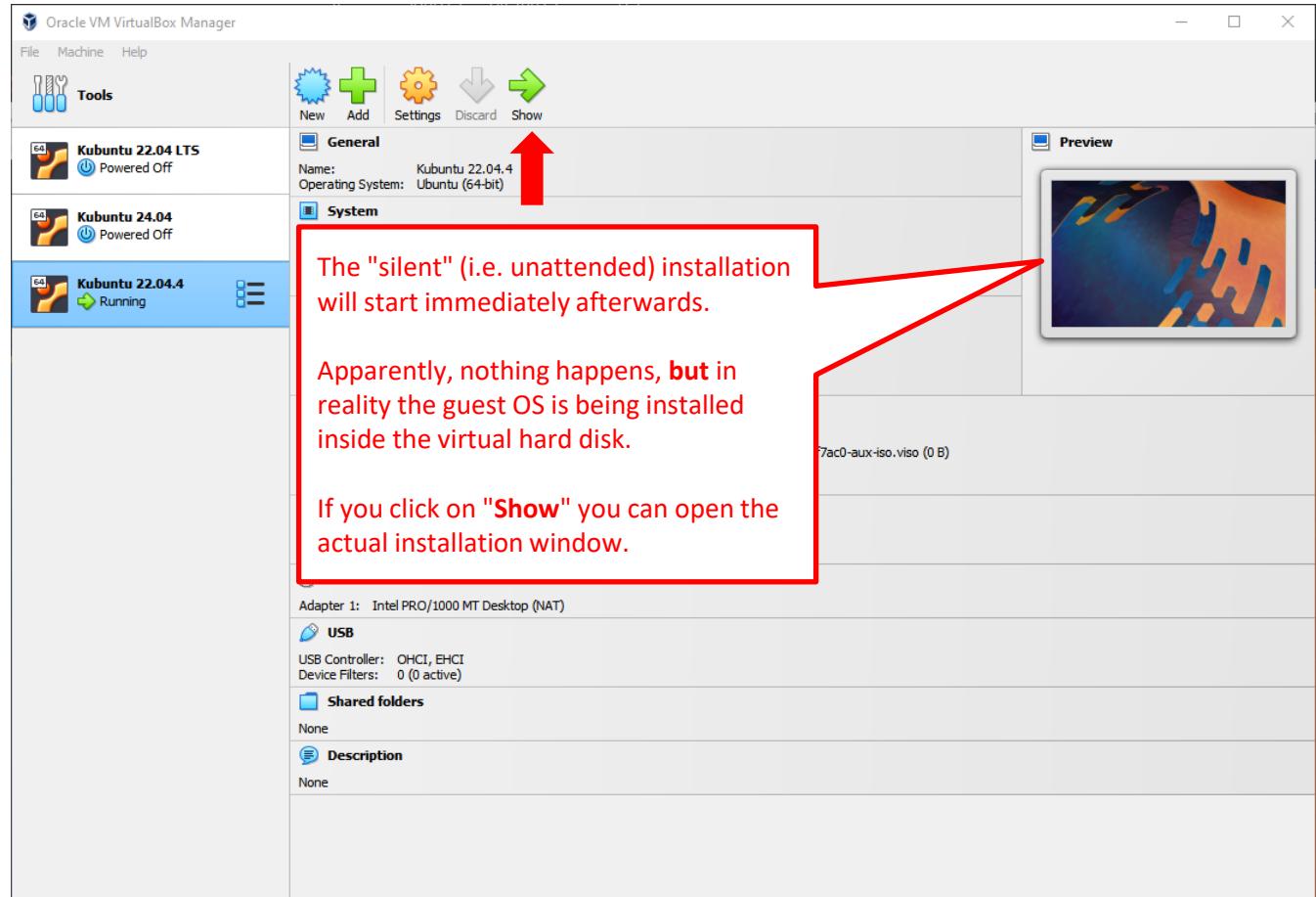
Name	Type	Size	Date modified
Logs	File folder		30/07/2024 18:13
Kubuntu 22.04.4 TUD.vbox	VirtualBox Machin...	5 KB	30/07/2024 19:00
Kubuntu 22.04.4 TUD.vbox-prev	VBOX-PREV File	6 KB	30/07/2024 19:00
Kubuntu 22.04.4.vdi	Virtual Disk Image	52,430,848 KB	30/07/2024 19:00
Unattended-e8b5f705-92b6-4011-9850-f4...	VISO File	1 KB	30/07/2024 08:57
Unattended-e8b5f705-92b6-4011-9850-f4...	Configuration Sou...	2 KB	30/07/2024 08:57
Unattended-e8b5f705-92b6-4011-9850-f4...	Configuration Sou...	4 KB	30/07/2024 08:57
Unattended-e8b5f705-92b6-4011-9850-f4...	Shell Script	8 KB	30/07/2024 08:57

Note: Once the new **virtual hard disk** is created, a new folder will be added to the installation path. Please note: it contains a huge file of (circa) 50 GB. This file is the "virtual hard disk" that will contain the guest OS.

3a) Create a Virtual Machine

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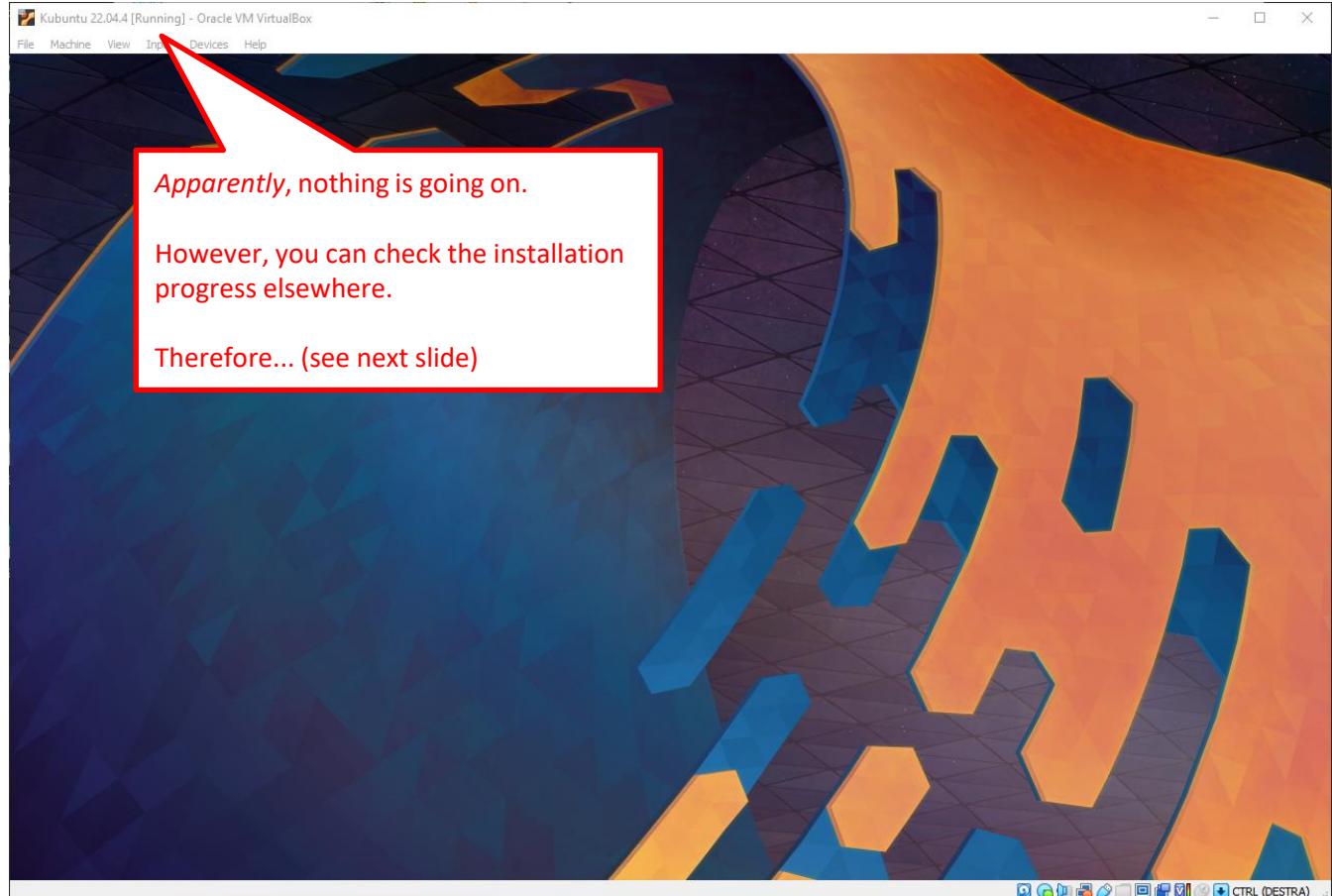
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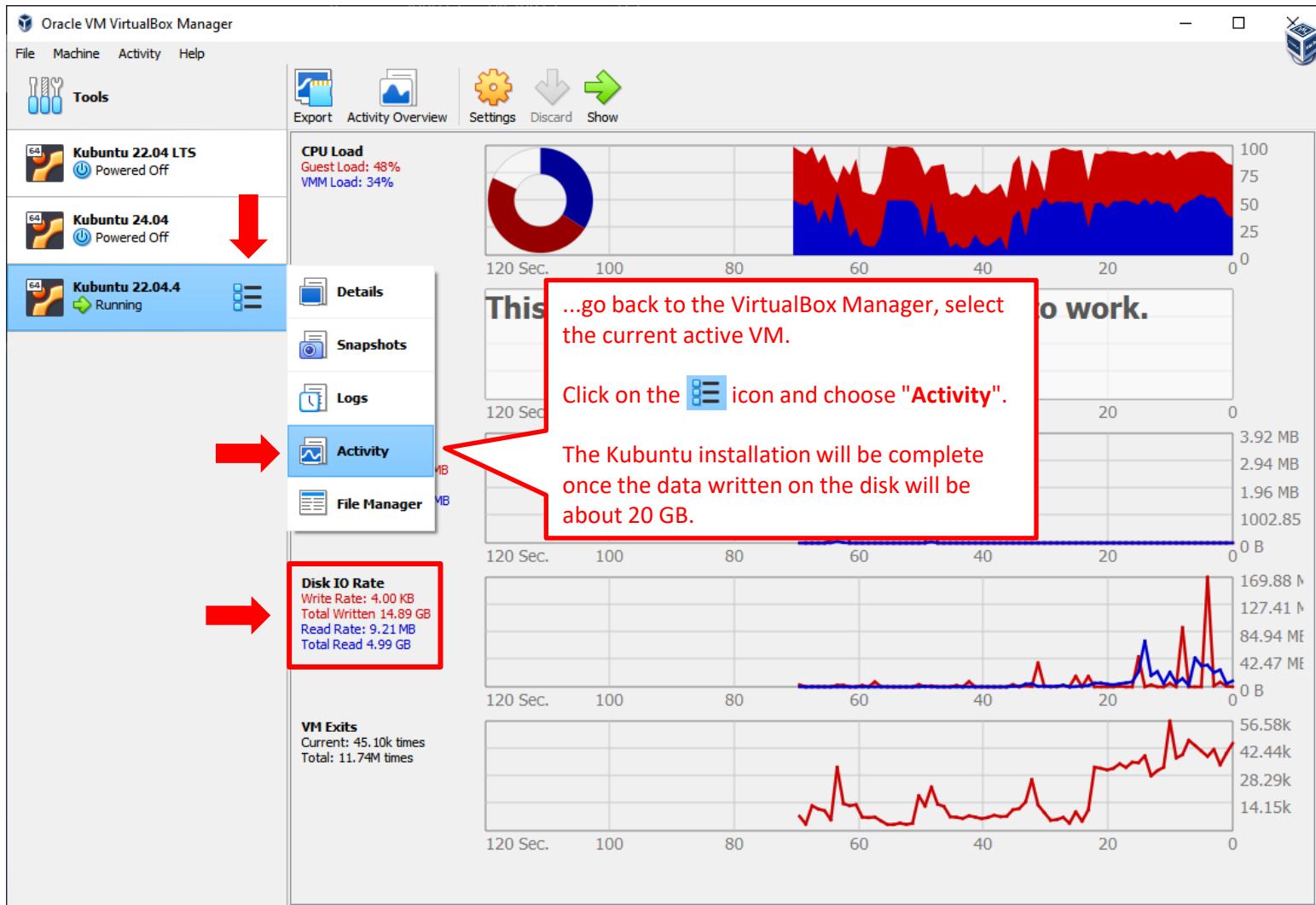
3b) Install Kubuntu

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VirtualBox overview
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Stepwise setup
 • Download software
 • Install VirtualBox
 • Create a VM
 • **Install Kubuntu**
 • Initial configuration
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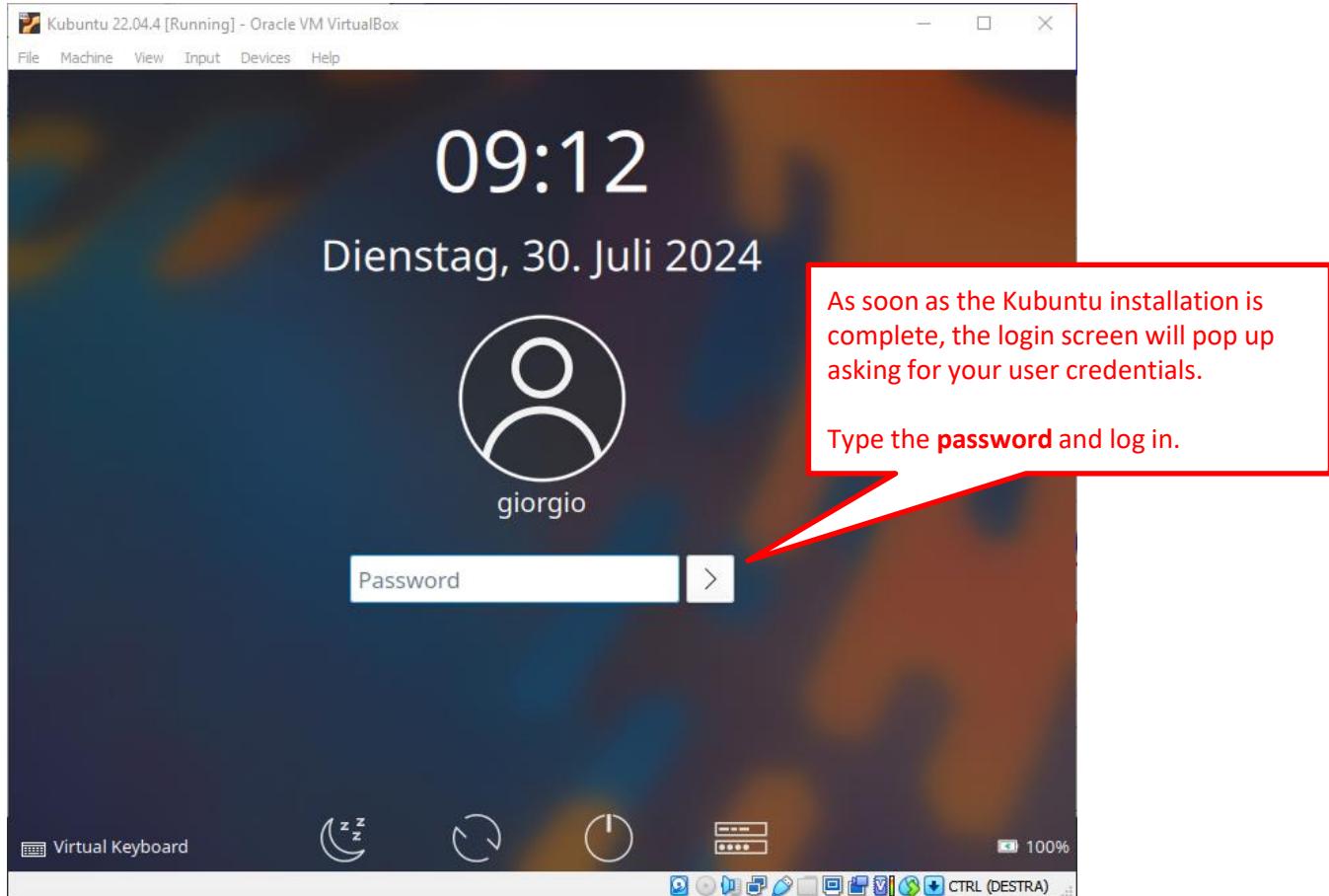


3b) Install Kubuntu

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VirtualBox overview

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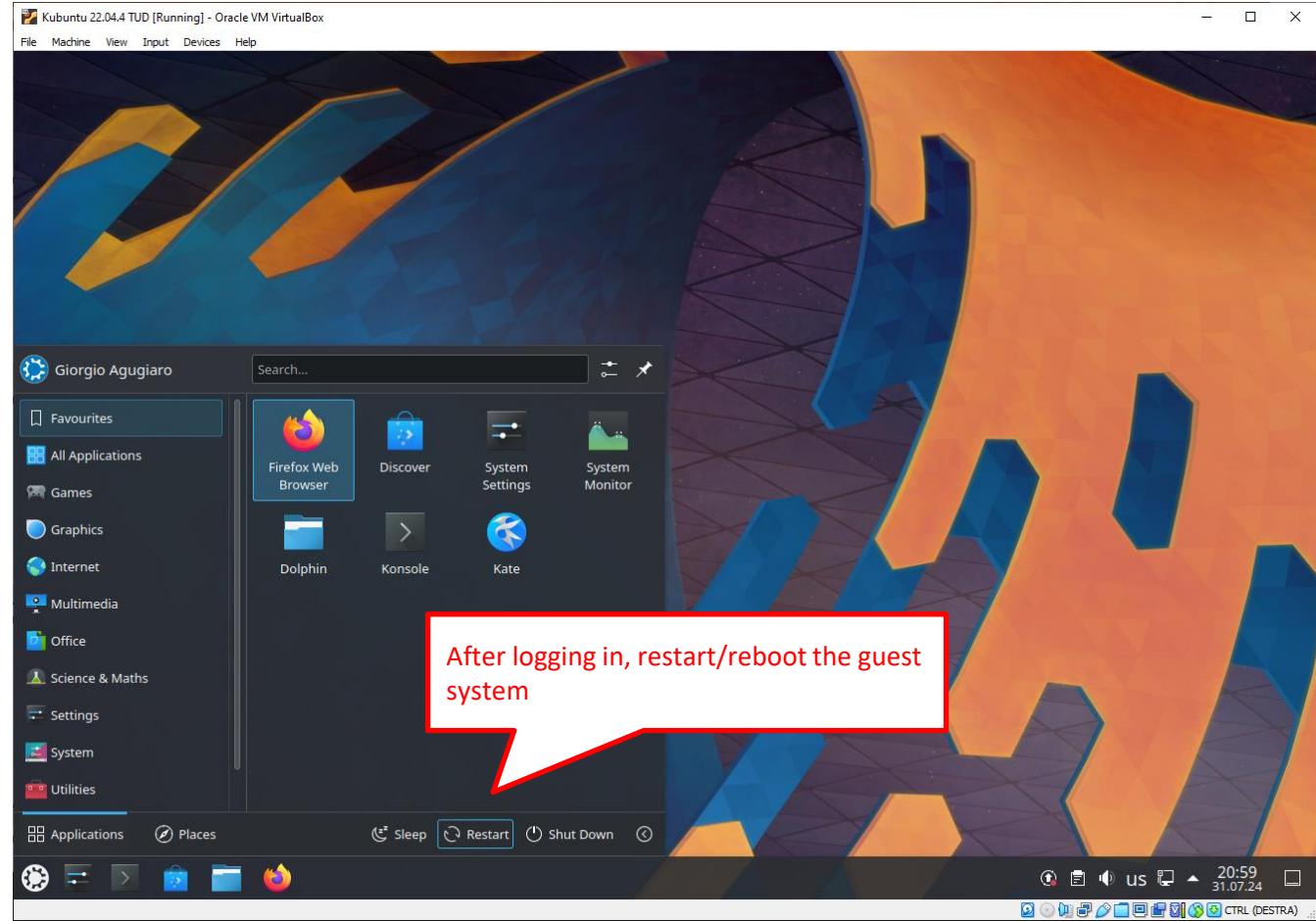
3b) Install Kubuntu: Installation bug

- **The problem:** As a result of the **unattended installation**, the user (e.g. "giorgio") cannot use the *sudo* command to perform root operations. The reason is that the user does not belong to the sudo group
- This bug is documented here, as well as the solution
 - https://www.techrepublic.com/article/virtualbox-unattended-installation-feature/#That_darned_caveat
- **The solution:** see next slides! 😊

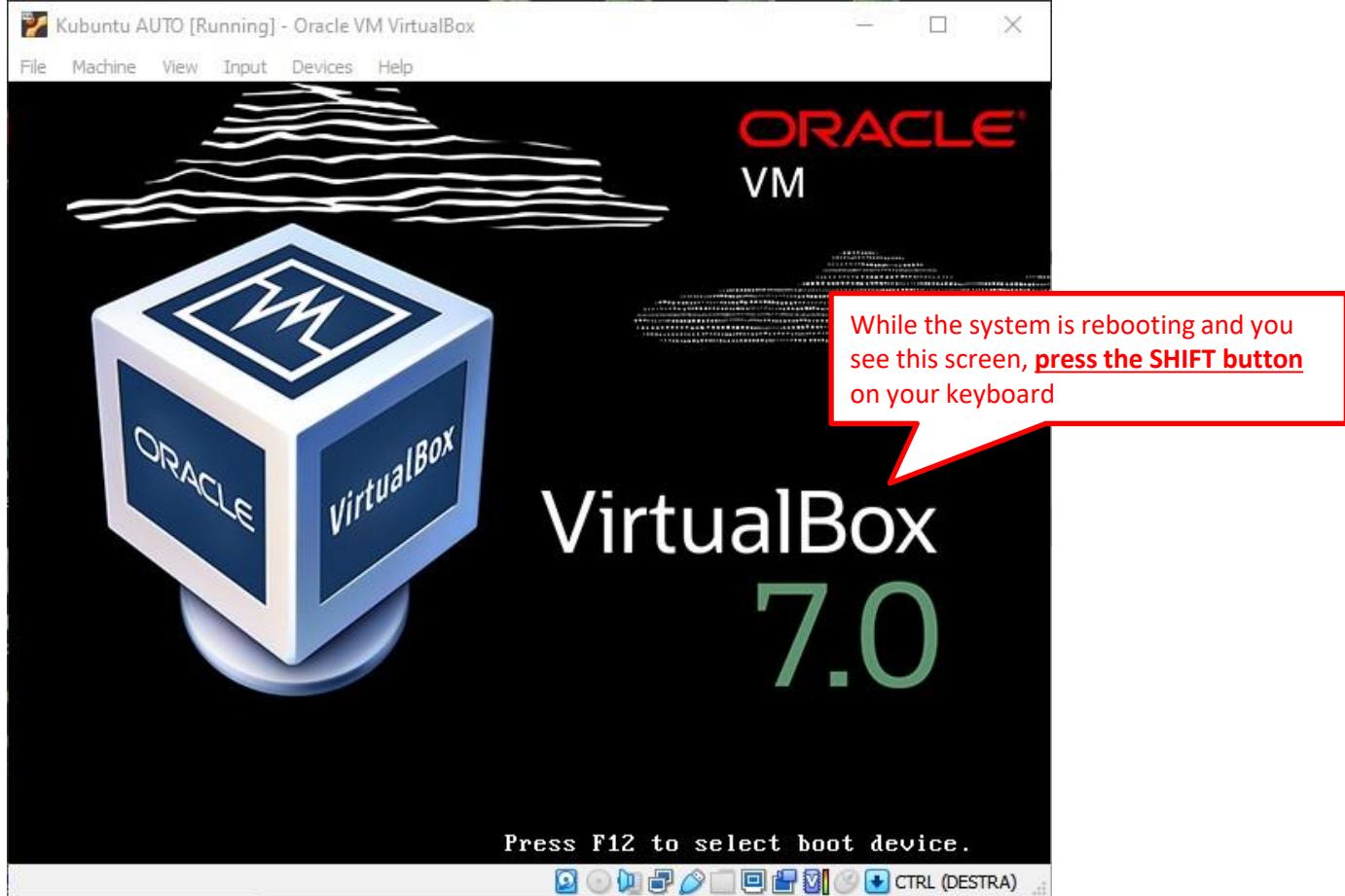


3b) Install Kubuntu

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- Stepwise setup**
 - Download software
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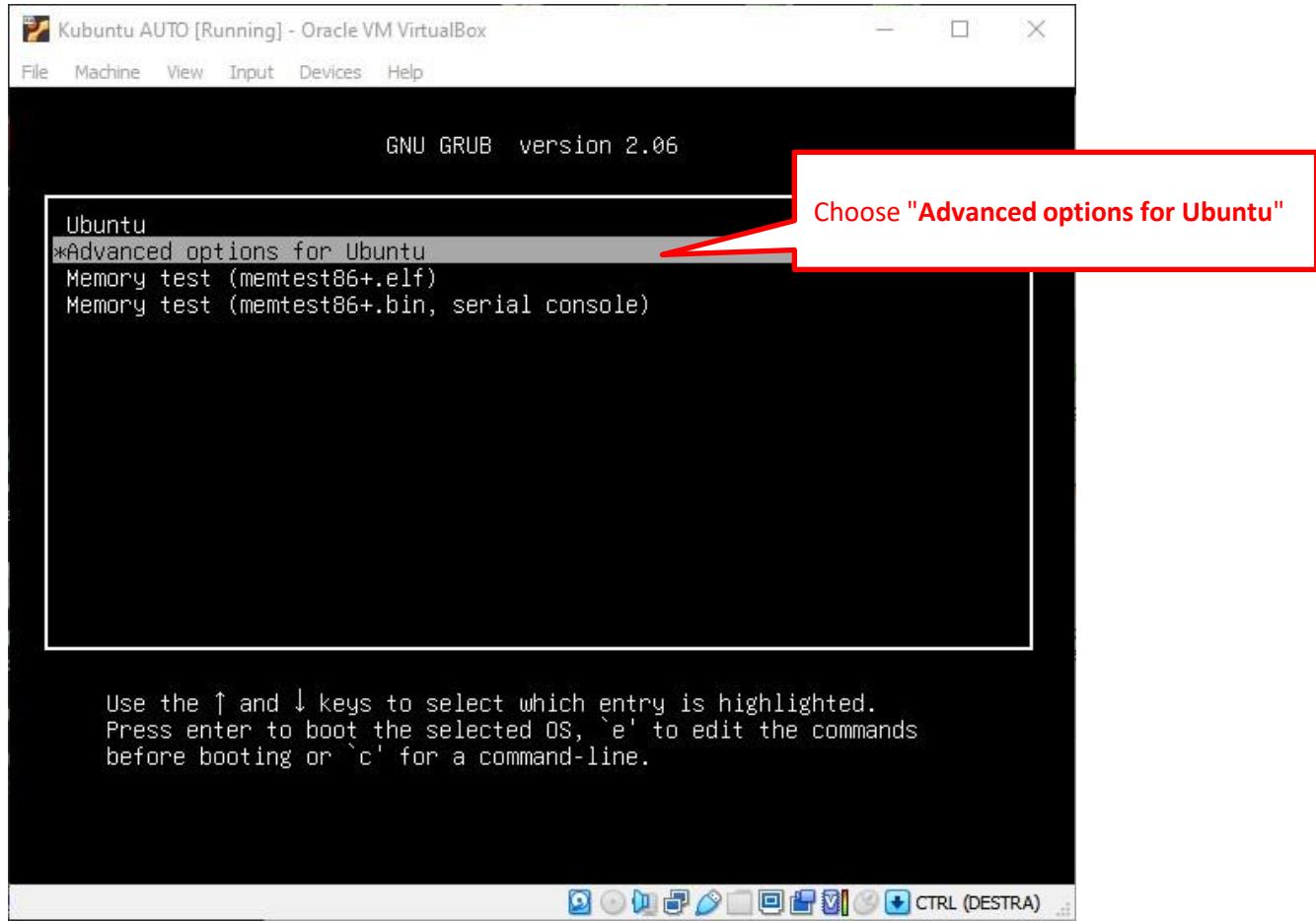
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3b) Install Kubuntu

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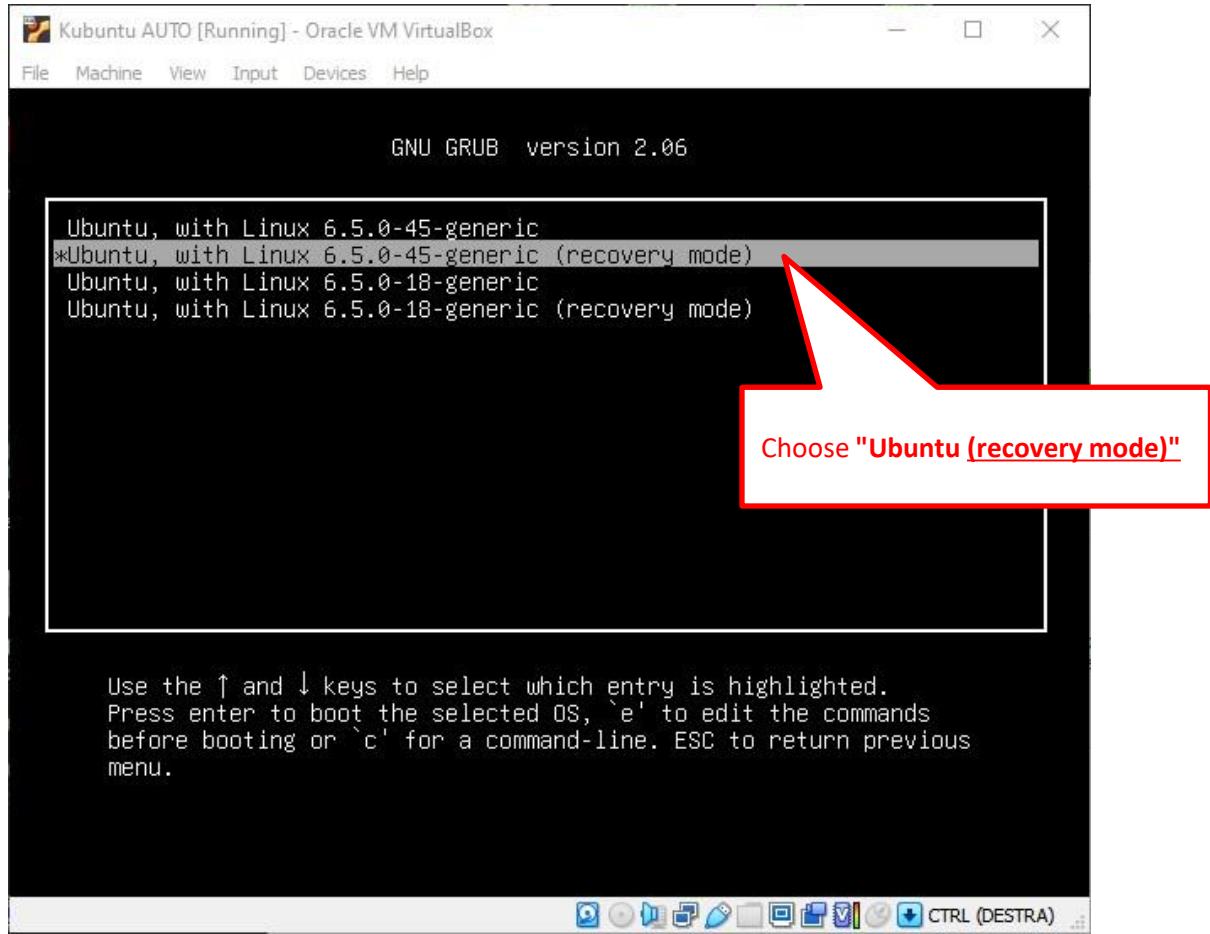
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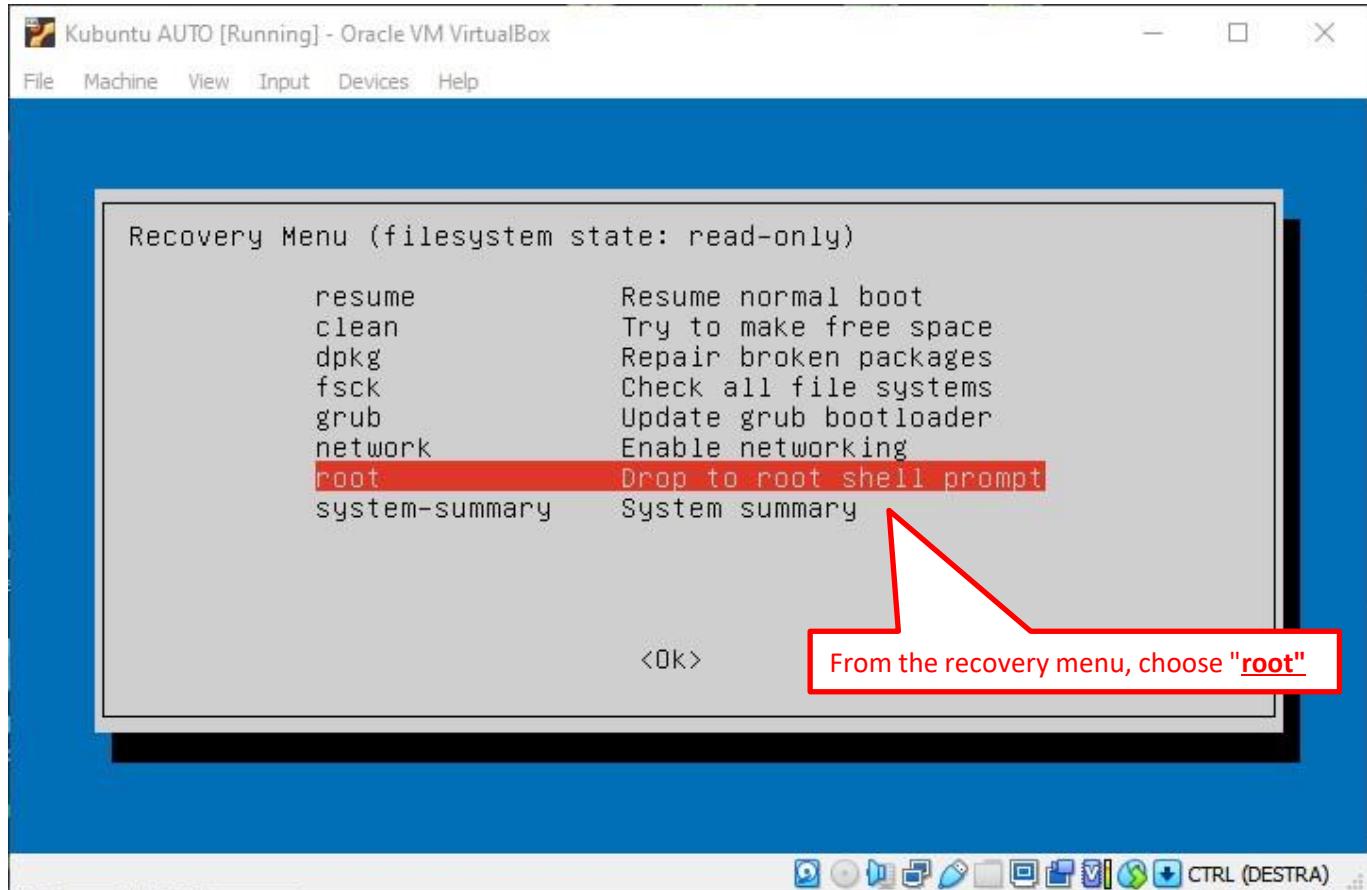
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Kubuntu overview

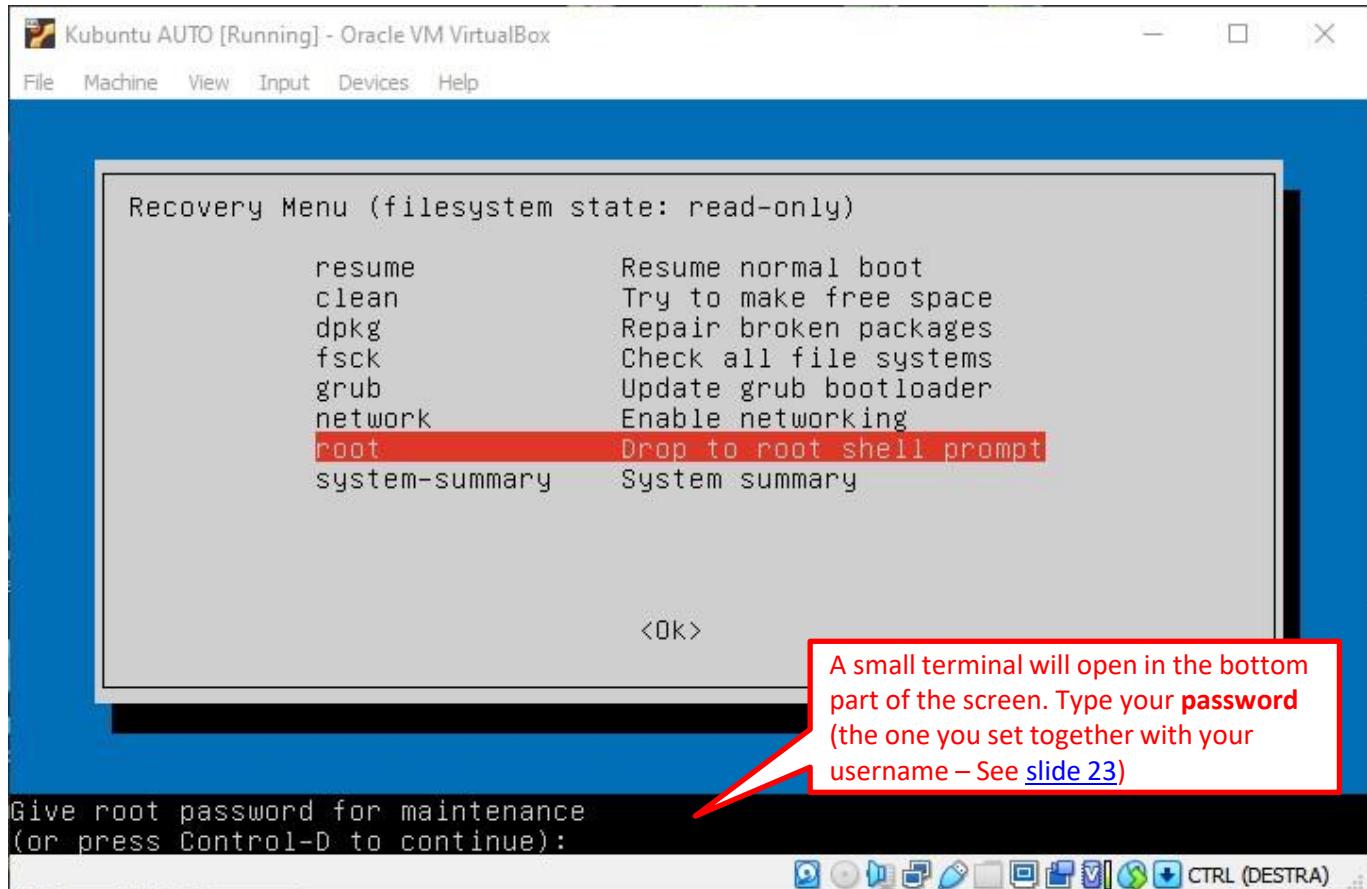
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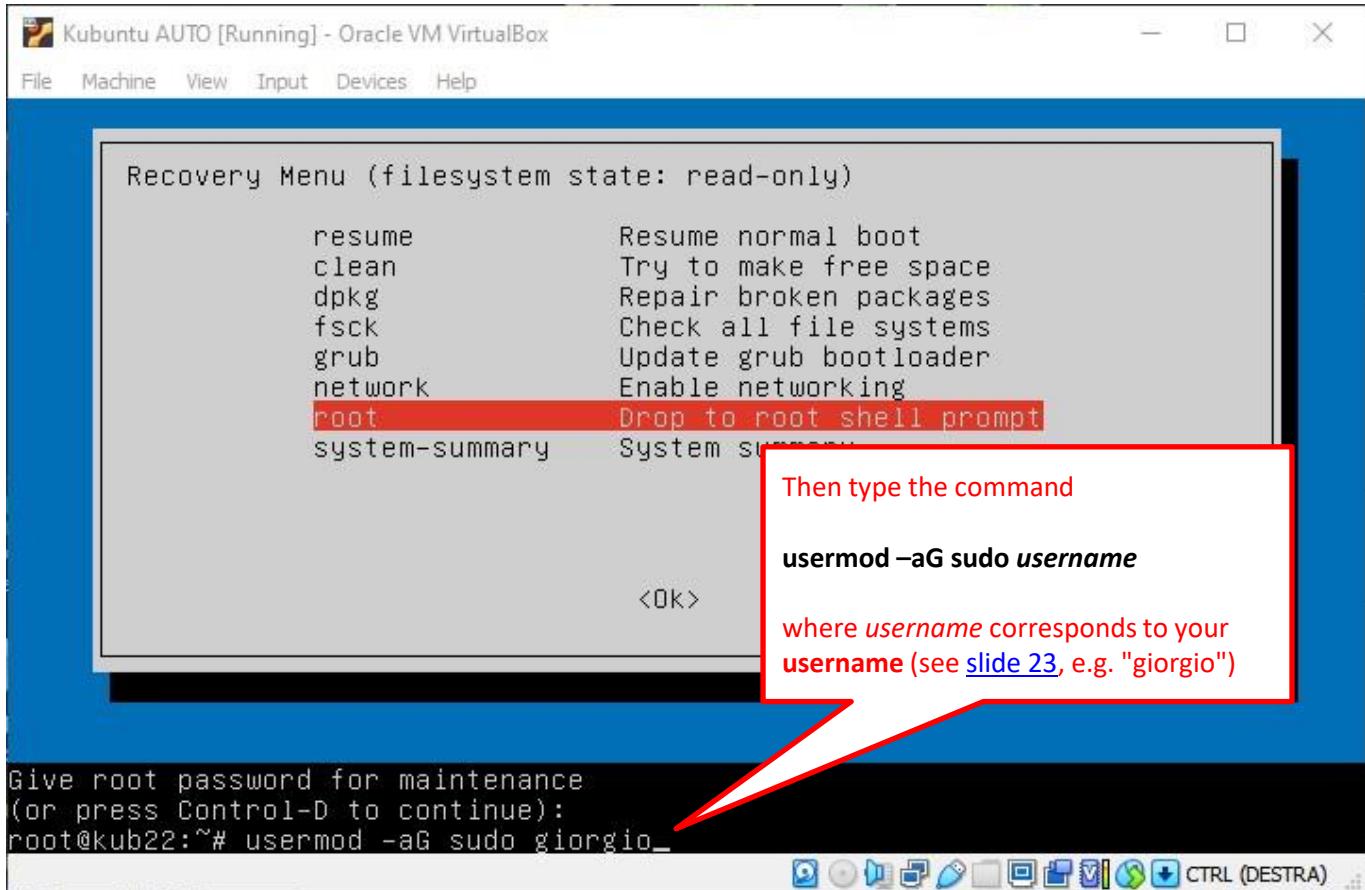


3b) Install Kubuntu

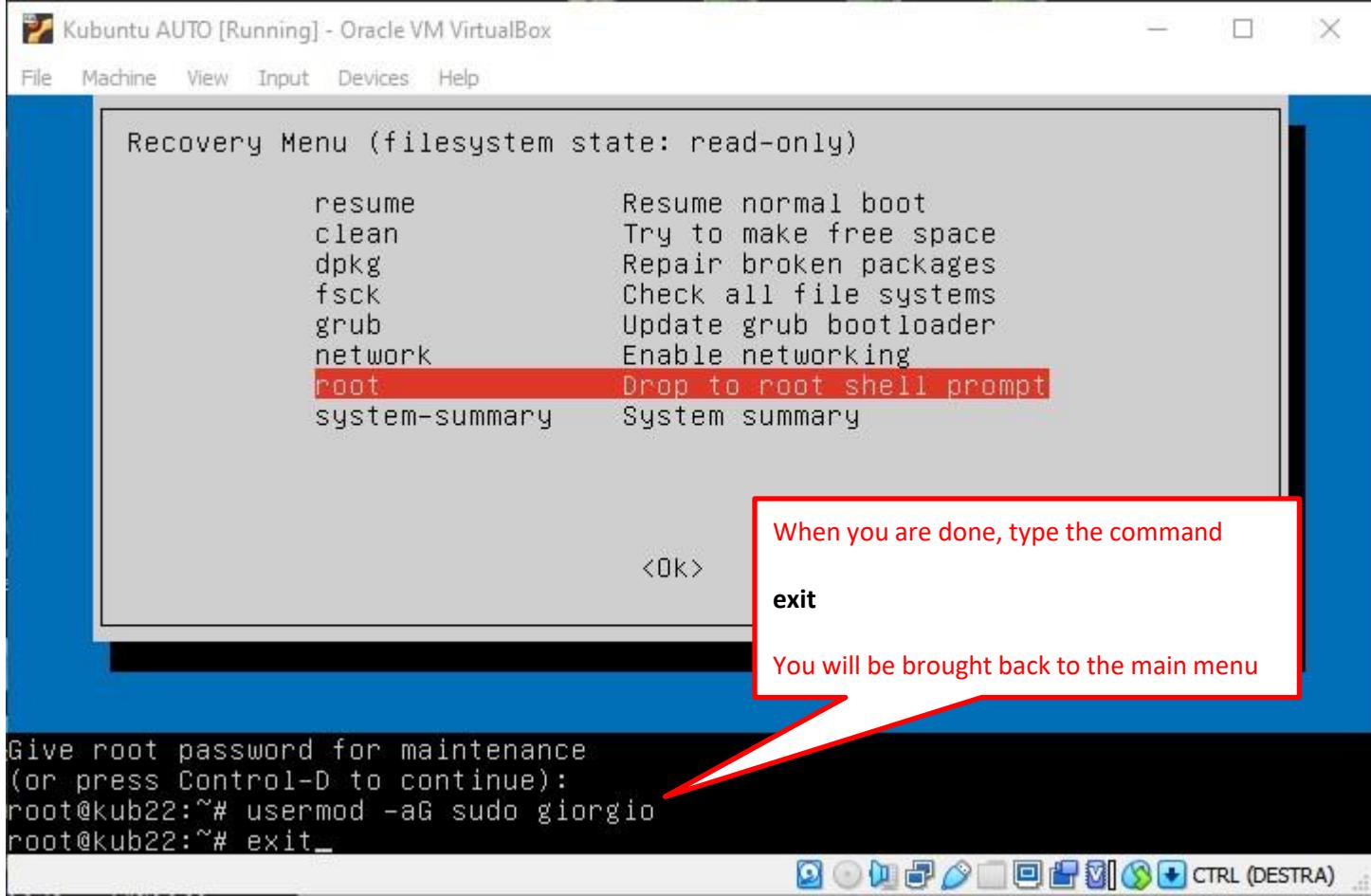
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3b) Install Kubuntu



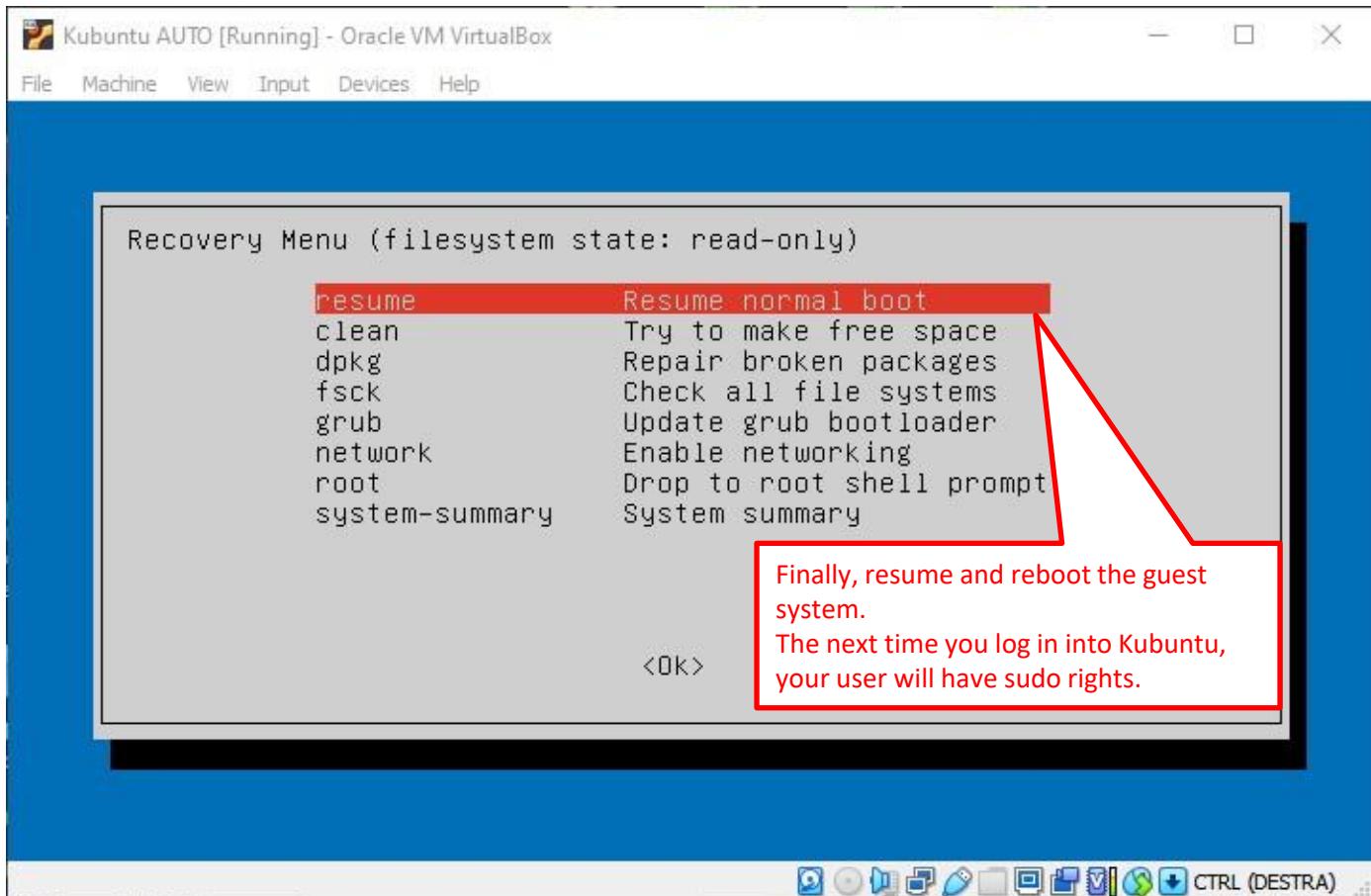
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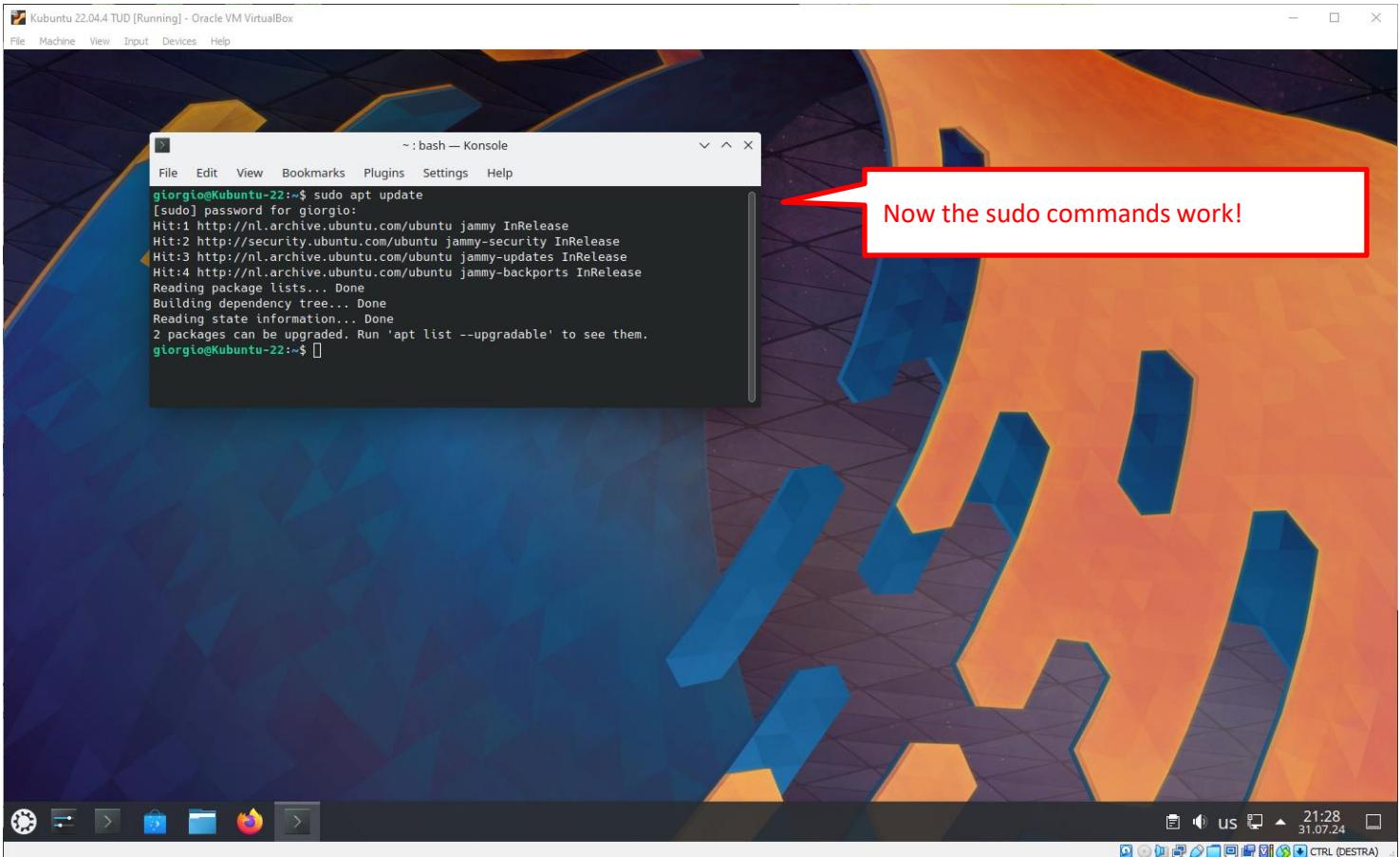
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3b) Install Kubuntu

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Kubuntu on VirtualBox on Windows

Procedure overview:

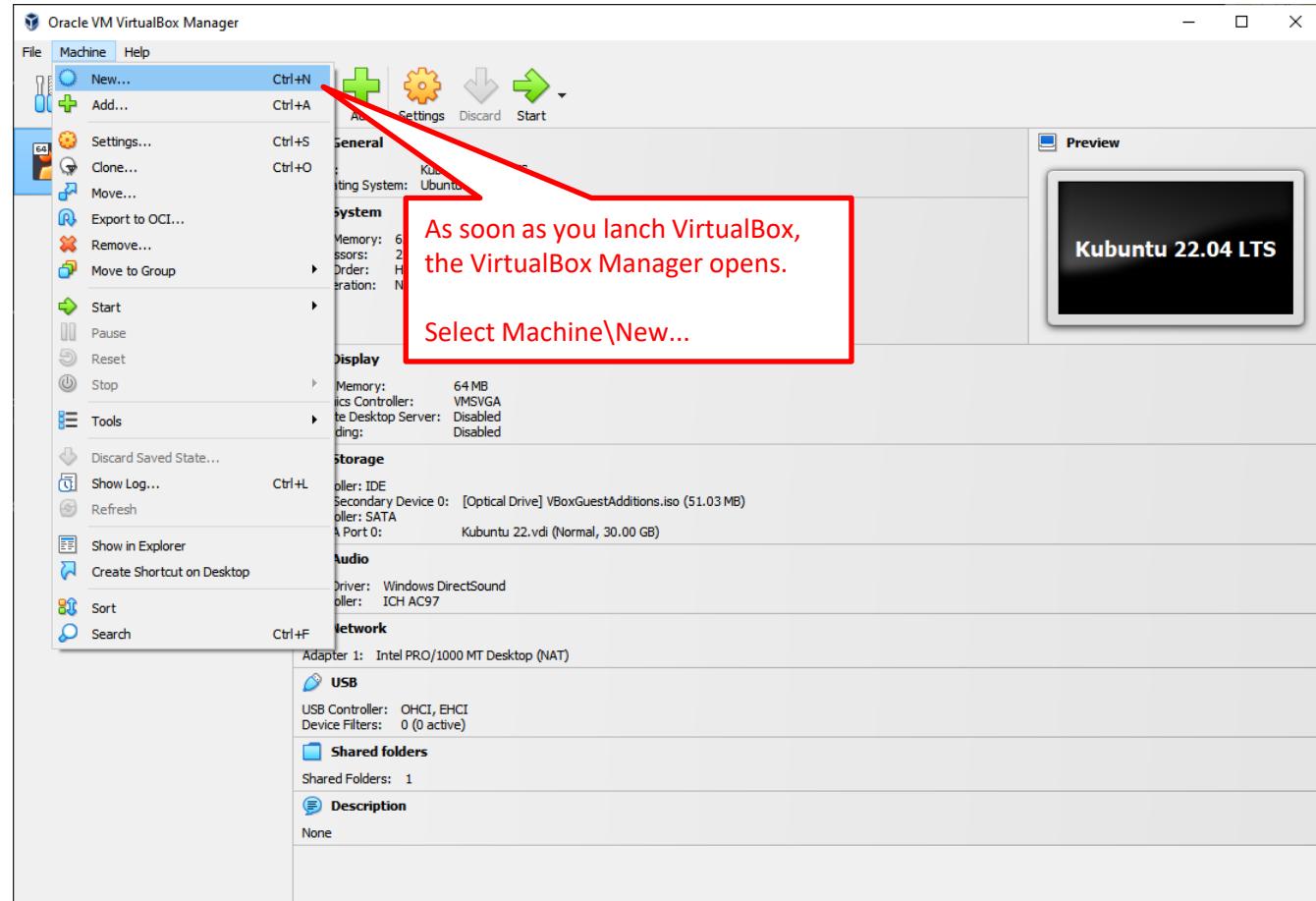
- 1) Download the software (VirtualBox installer, Kubuntu, etc.)
- 2) Install VirtualBox
- 3) **Create a Virtual Machine & install Kubuntu**
 - Preliminary notes (go to [slide 17](#))
 - Automatic approach
 - [Manual approach](#)
- 4) Initial configuration of Kubuntu

Done! 😊

3) Create a Virtual Machine

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- Initial configuration
- Software removal

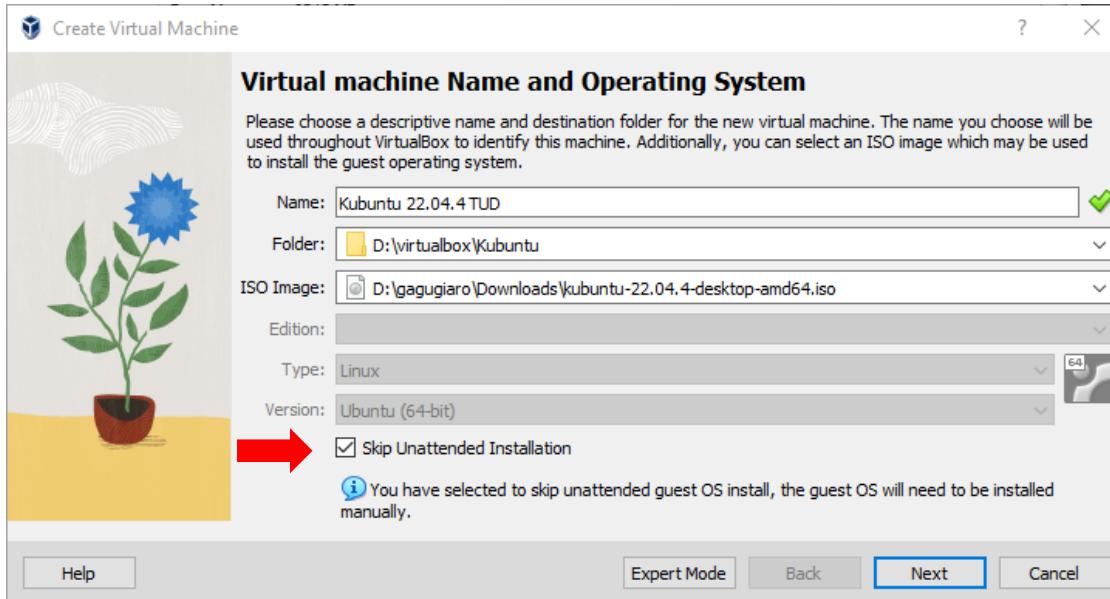


3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
- Initial configuration

Software removal



The Create Virtual Machine window opens.

You must enter the name of the Virtual Machine (you choose the name), the installation folder, and the path to the .iso file of the guest OS (here: Kubuntu 2022.04)

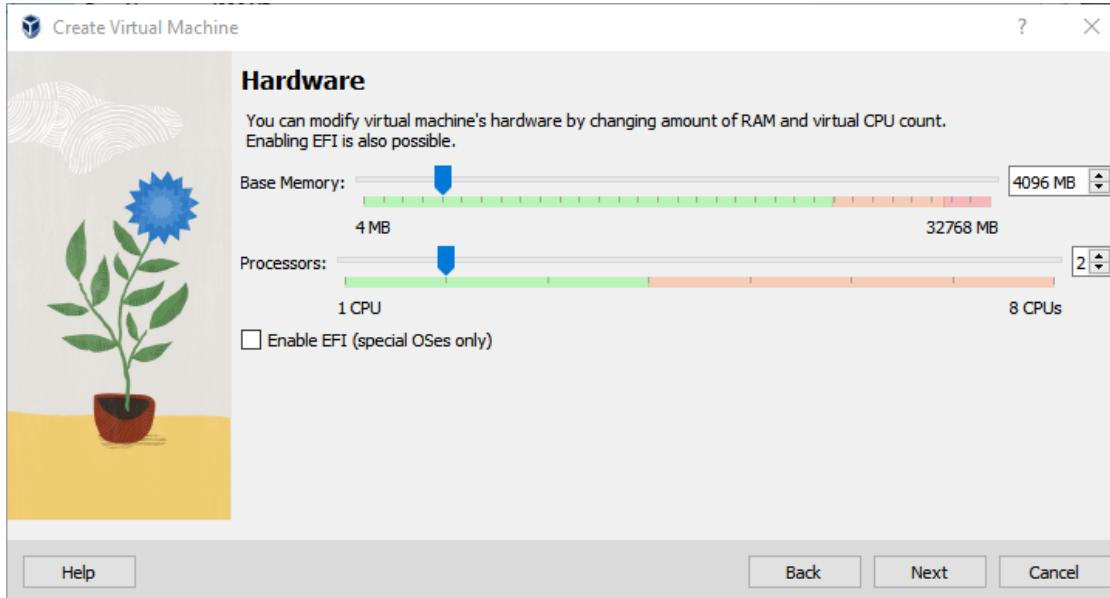
Check that the "Skip Unattended Installation" **IS CHECKED**

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
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Software removal



Define the hardware resources to allocate to the new VM, i.e.:

The **memory (RAM)** allocated to the VM

- 4 GB should suffice (minimum is 2 GB)

And the **number of processors**

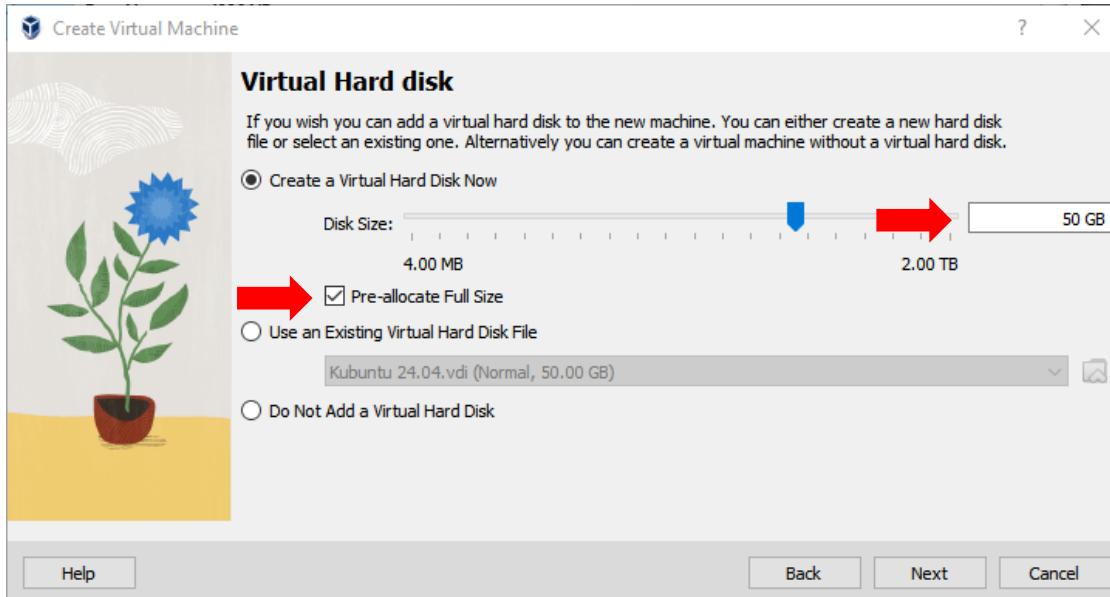
- 2 should suffice

These settings can be changed, if necessary, also after the VM has been created.

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- **Create a VM**
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- Initial configuration
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Define the size of the **virtual hard disk** containing the VM.

From the point of view of the host, the whole VM will be "contained" in that virtual hard disk, which actually is just a big file (see next slides).

For Kubuntu 2022.04, you can set 50 GB.

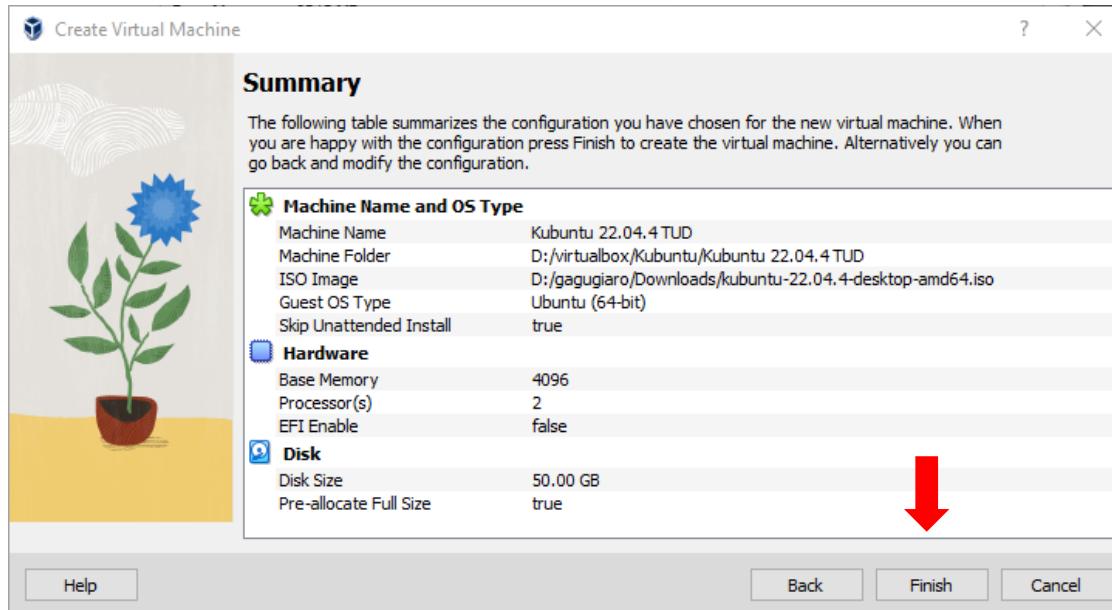
Suggestion: choose to **pre-allocate the full size**.

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- **Create a VM**
- Install Kubuntu
- Initial configuration

Software removal



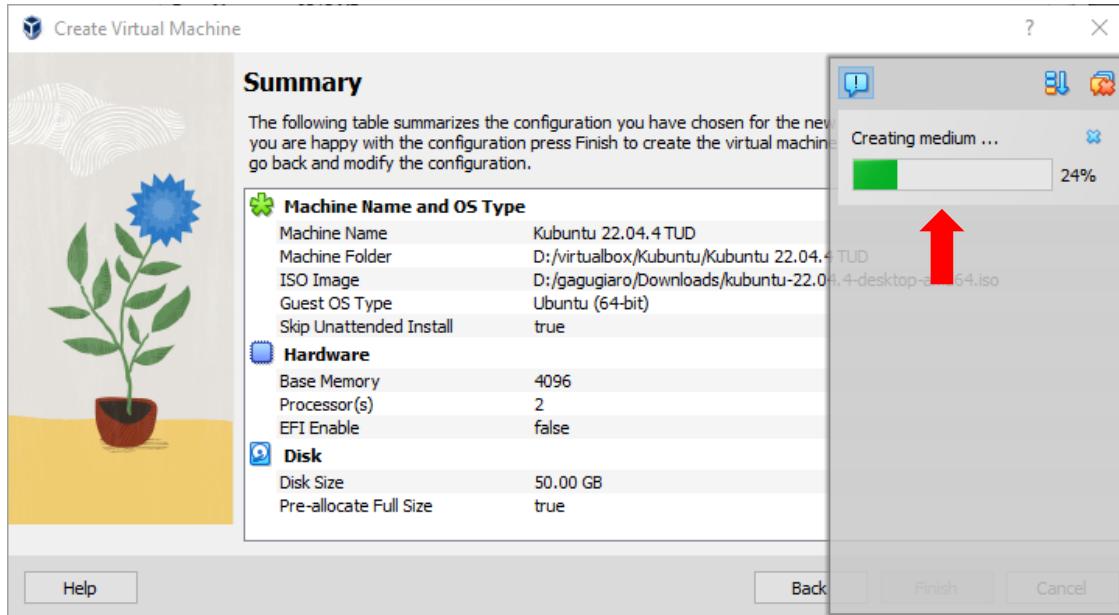
Before continuing with the installation of the guest OS, you are offered a summary.

Check that all is fine, then simply click on "Finish"

3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

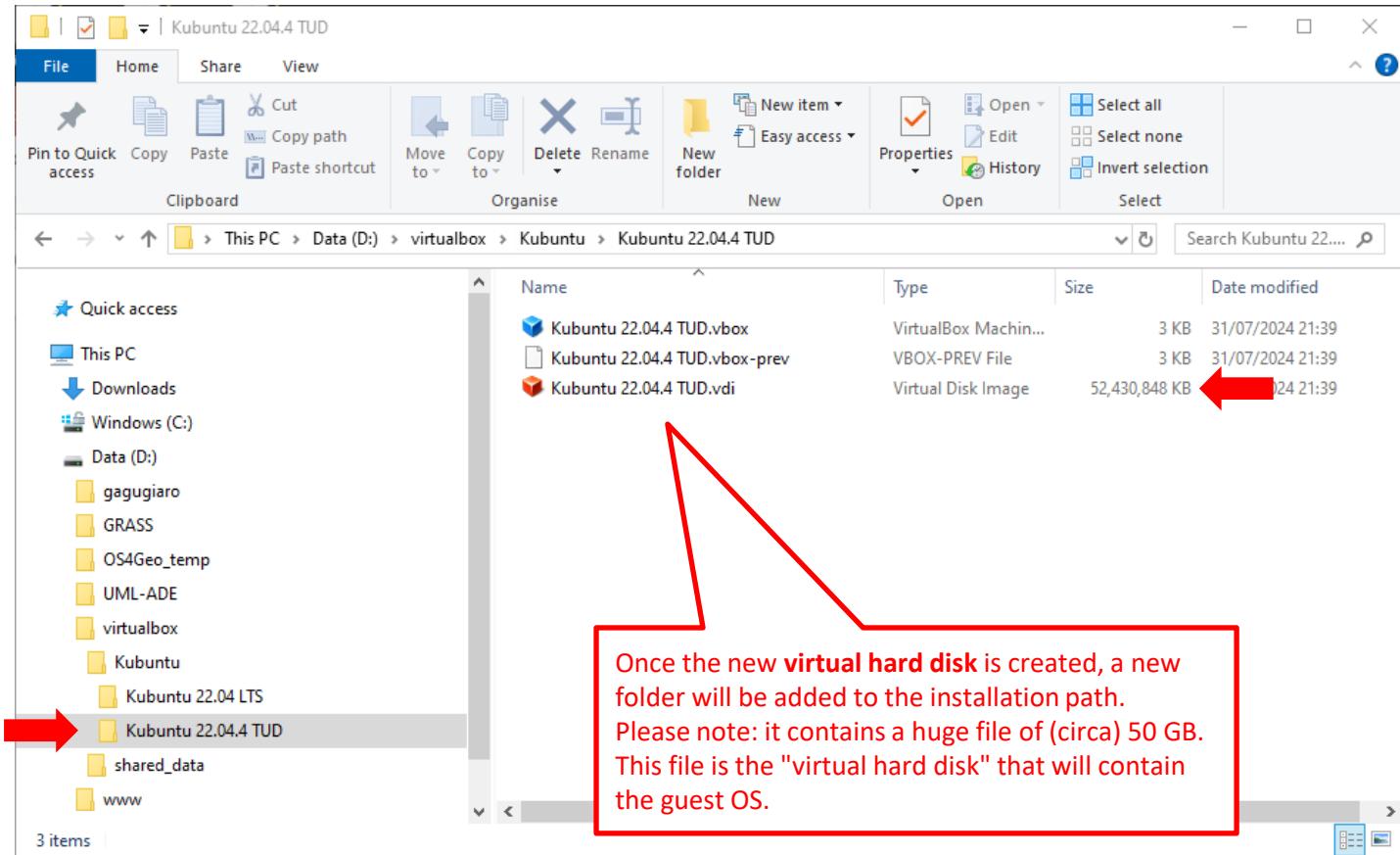
- Download software
- Install VirtualBox
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- Install Kubuntu
- Initial configuration
- Software removal



The creation process of the new virtual hard disk starts.

3a) Create a Virtual Machine

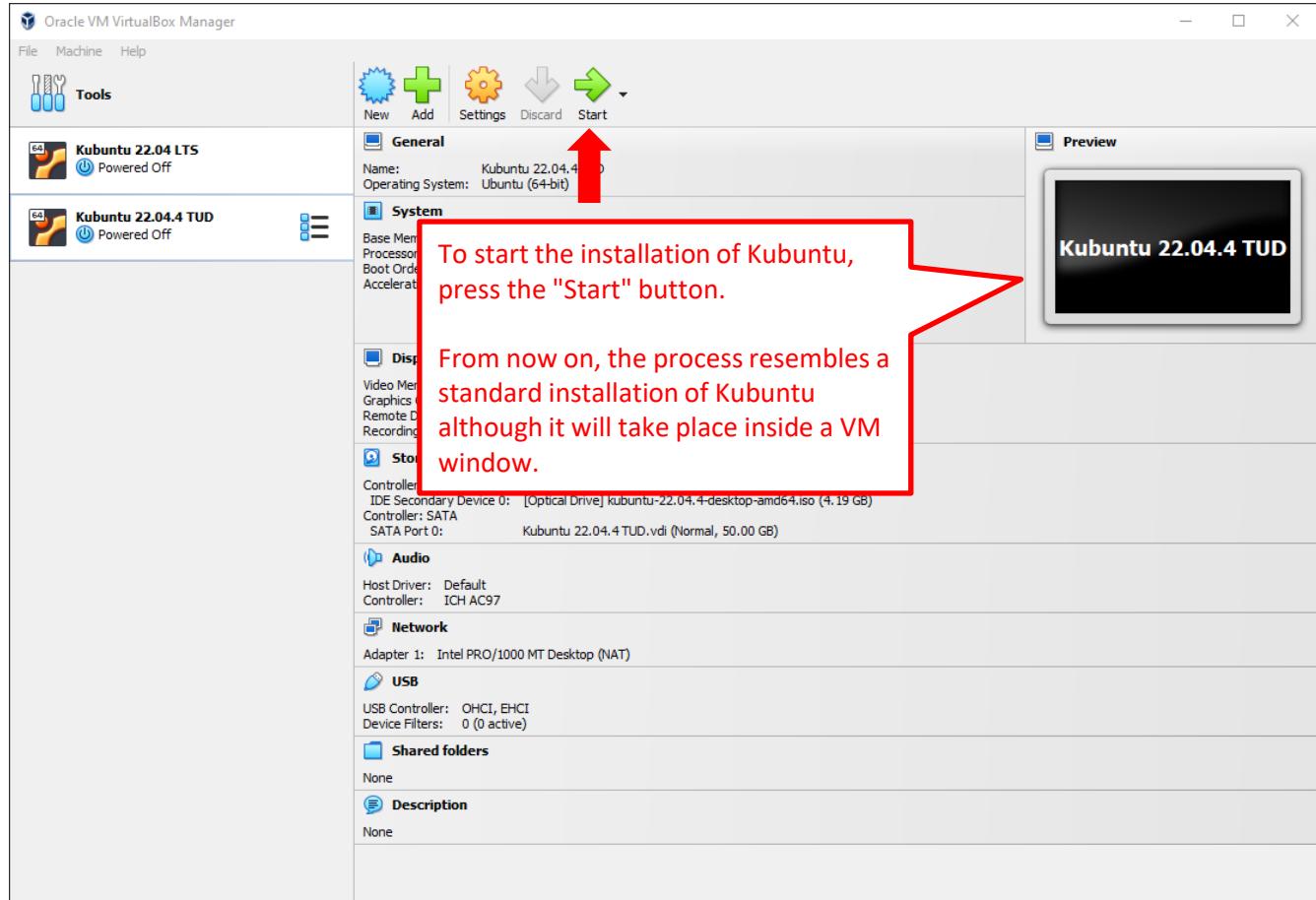
- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
 - Install VirtualBox
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 - Install Kubuntu
 - Initial configuration
- Software removal



3a) Create a Virtual Machine

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- Create a VM
- **Install Kubuntu**
- Initial configuration
- Software removal

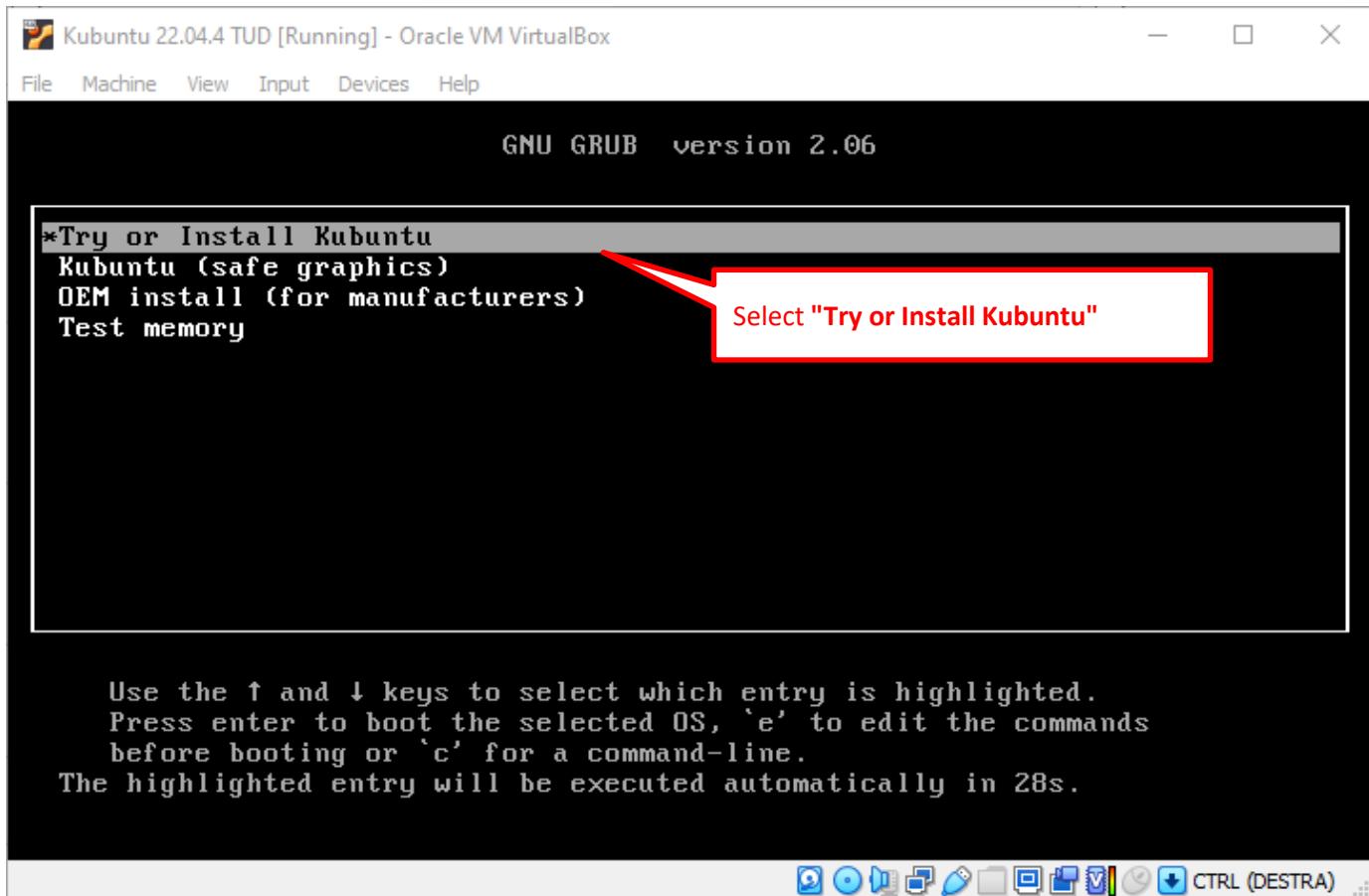


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

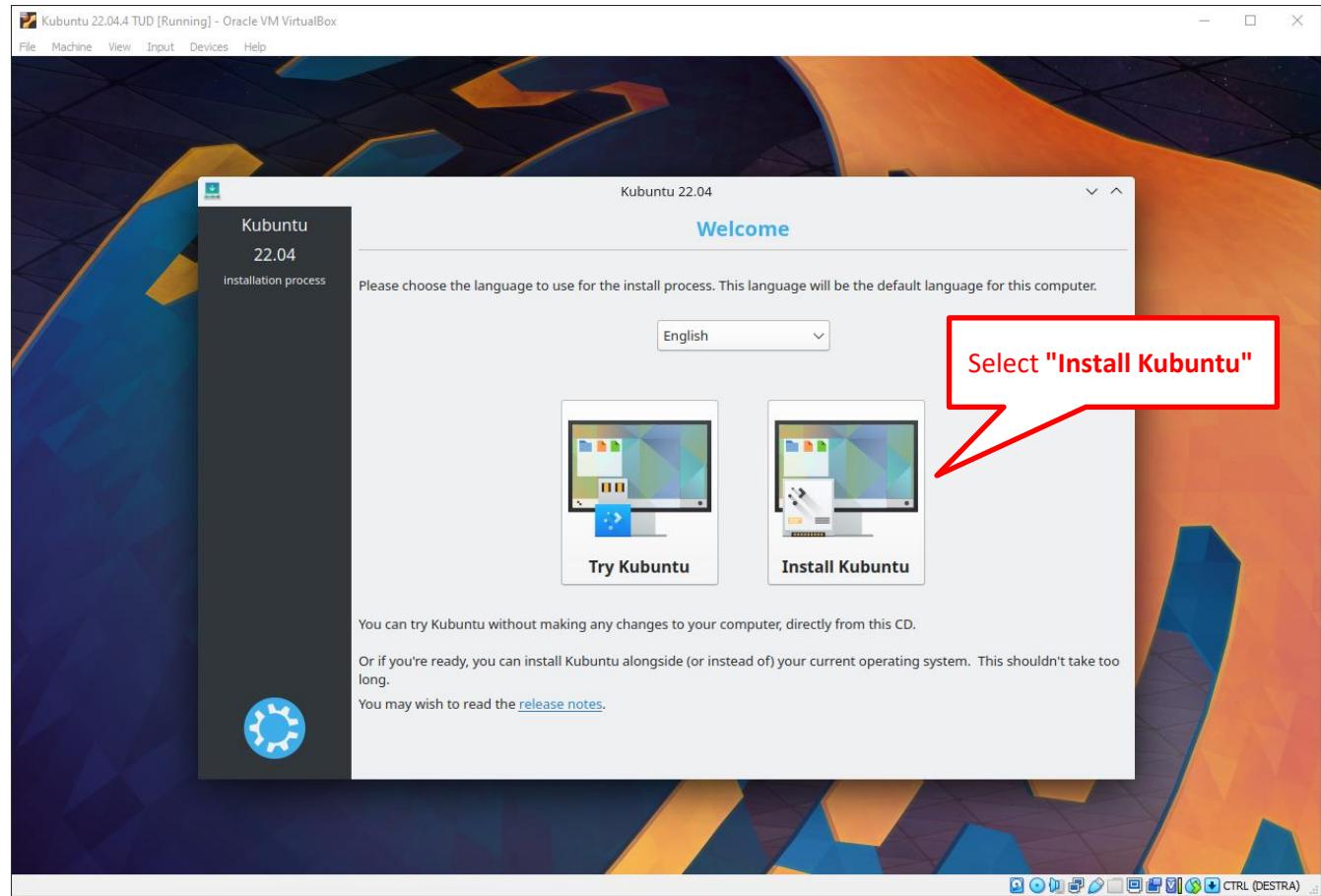
- Download software
- Install VirtualBox
- Create a VM
- **Install Kubuntu**
- Initial configuration

Software removal



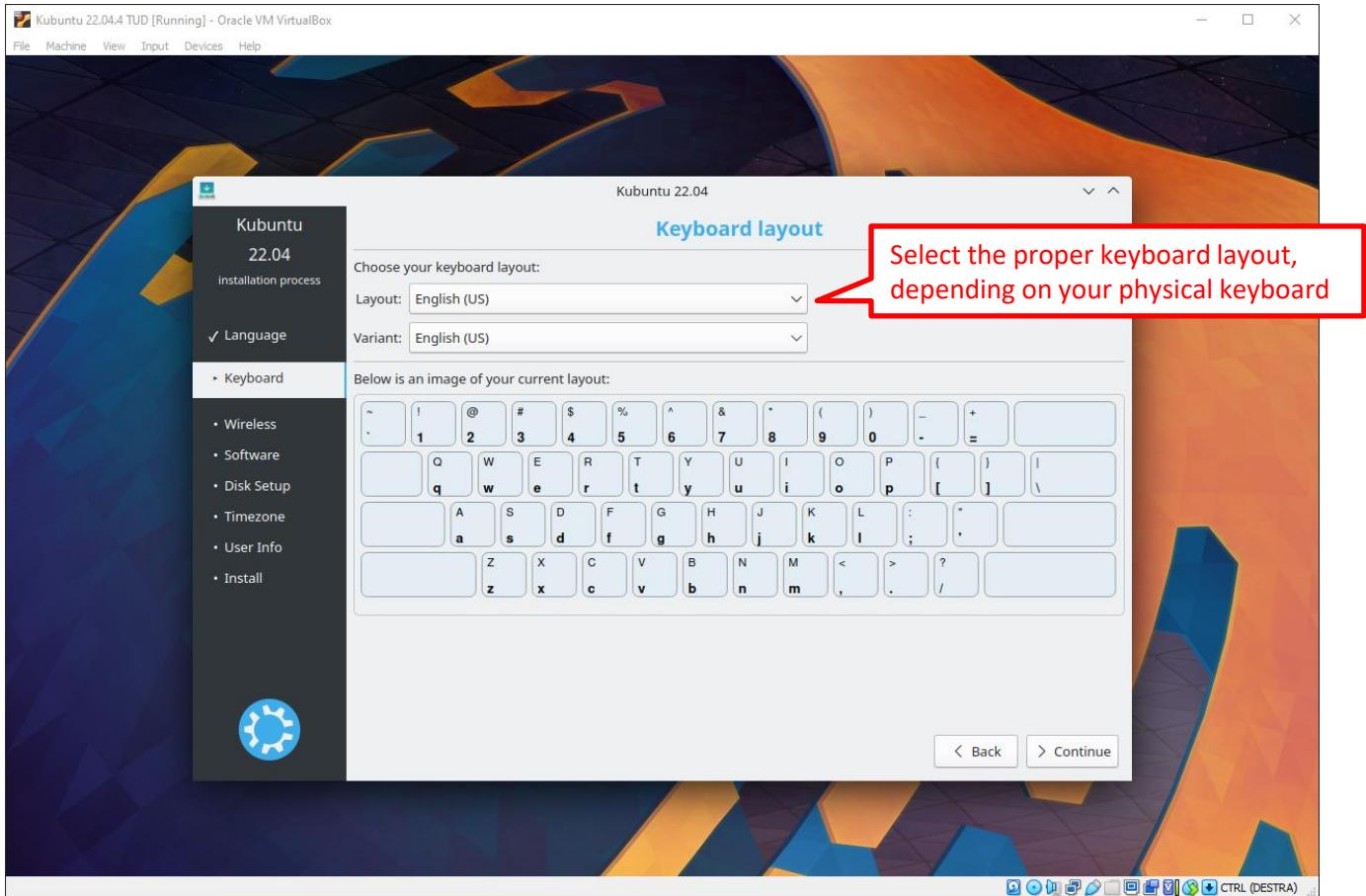
3b) Install Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
 - Install VirtualBox
 - Create a VM
 - Install Kubuntu**
 - Initial configuration
 - Software removal



3b) Install Kubuntu

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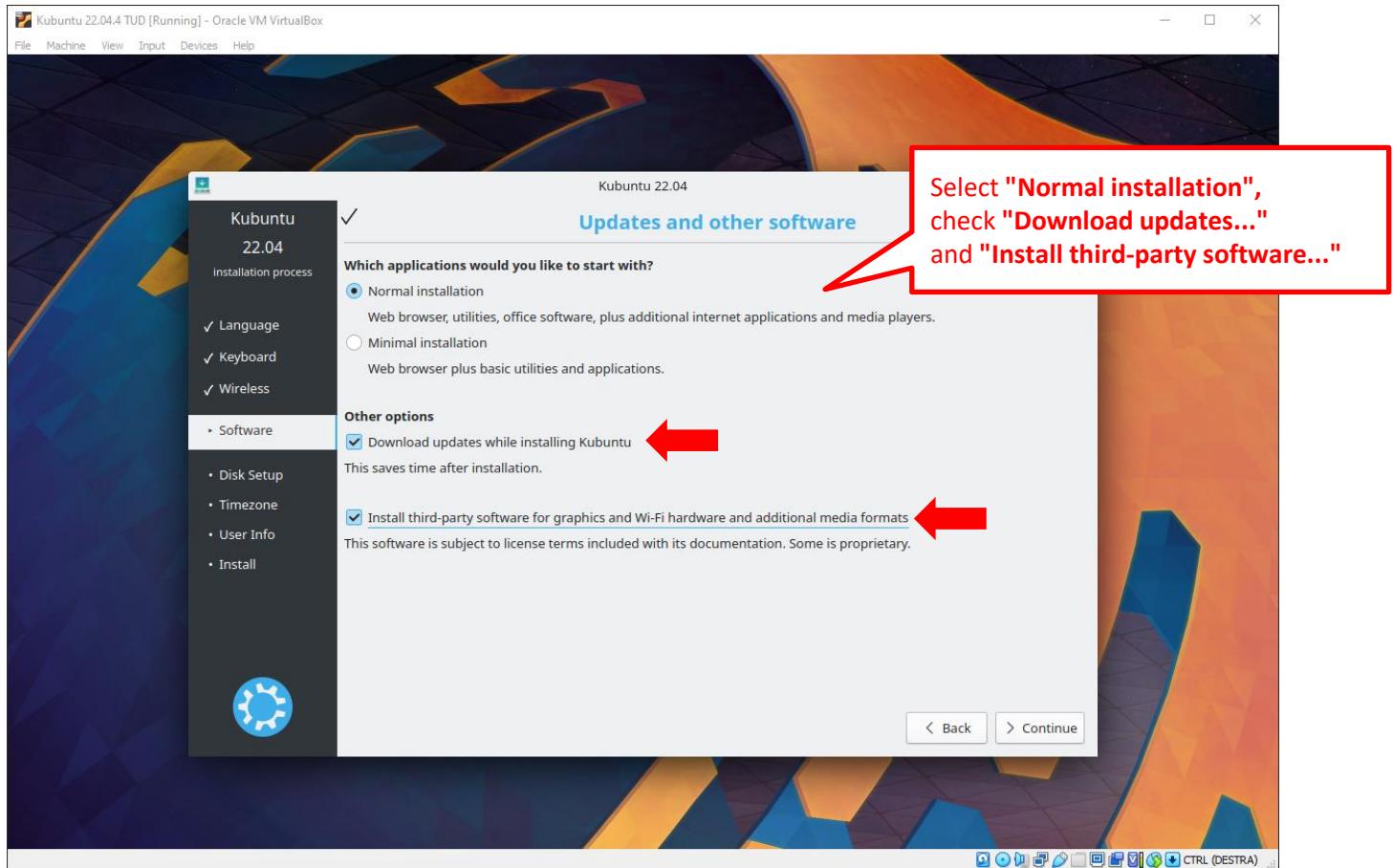


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

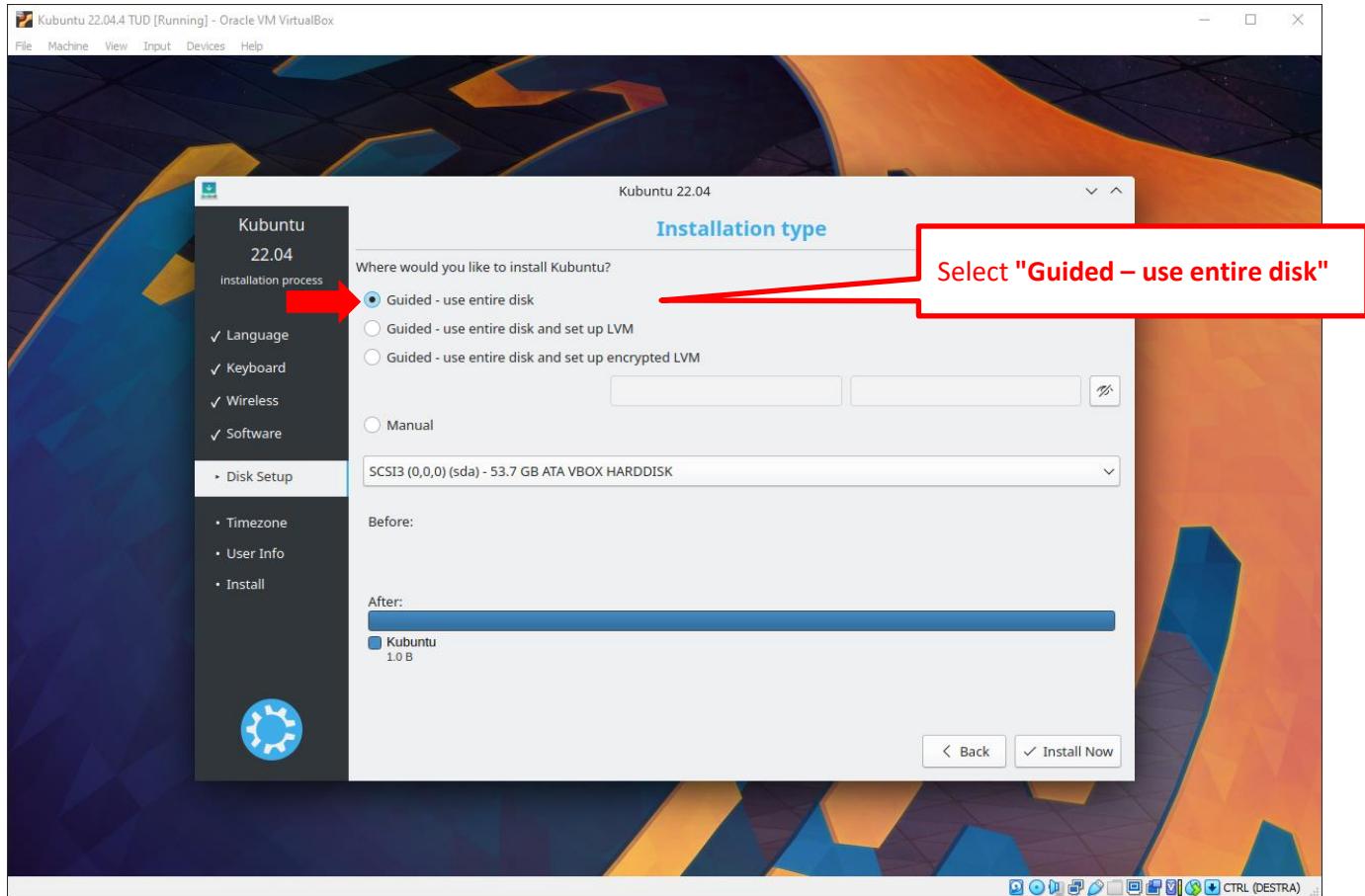
- Download software
- Install VirtualBox
- Create a VM
- **Install Kubuntu**
- Initial configuration

Software removal



3b) Install Kubuntu

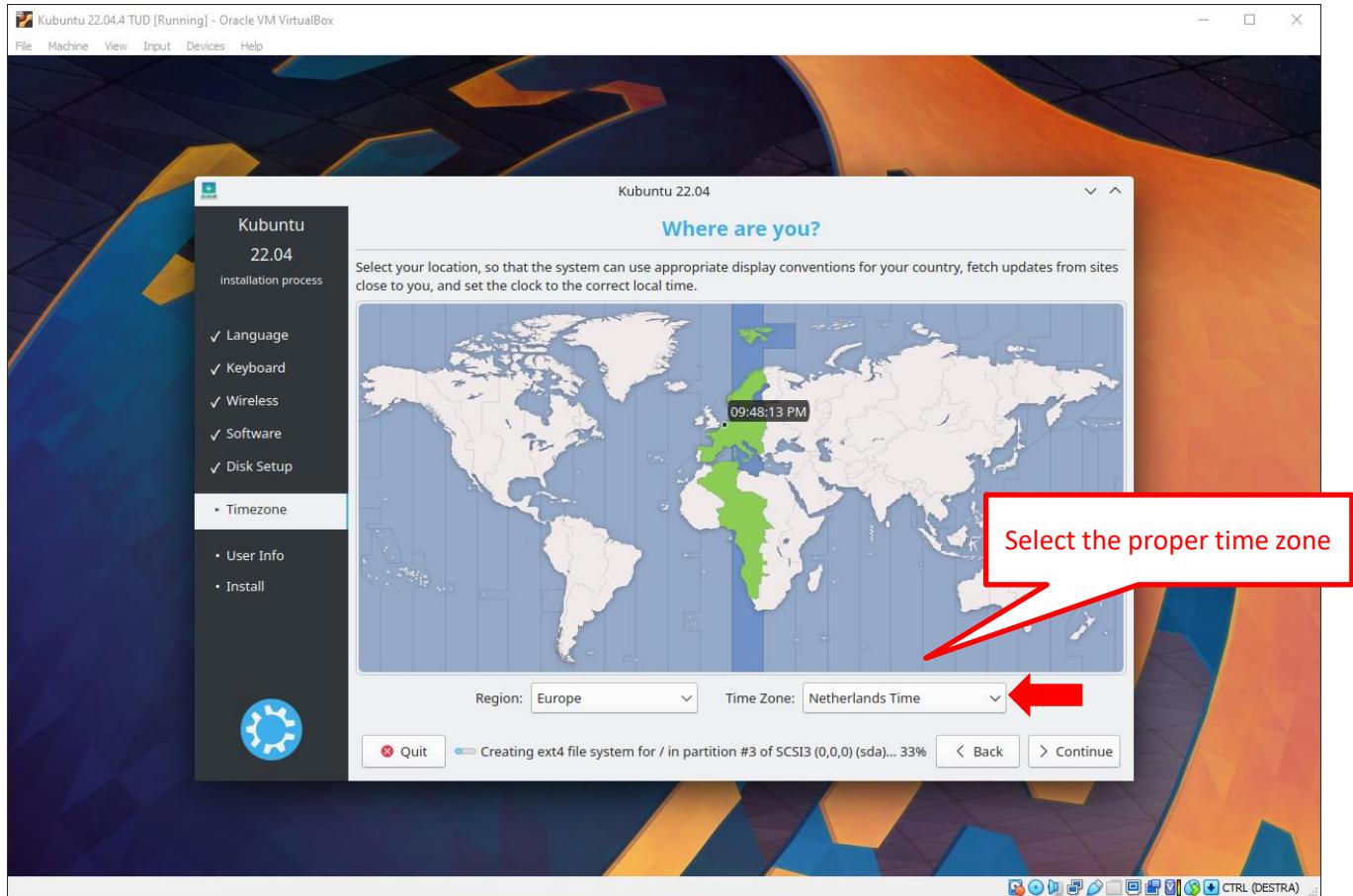
- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
 - Install VirtualBox
 - Create a VM
 - Install Kubuntu**
 - Initial configuration
 - Software removal



3b) Install Kubuntu

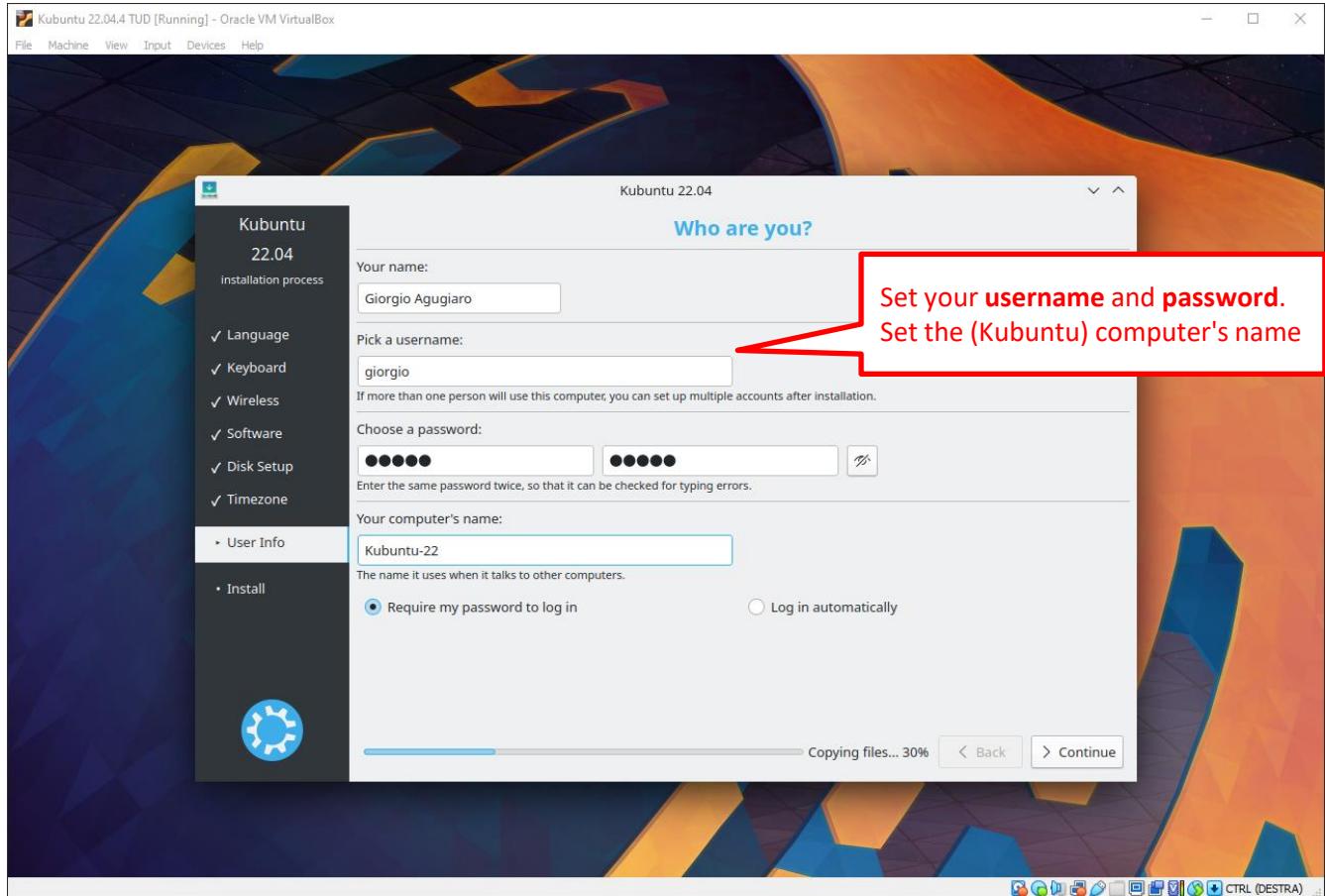
VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- Create a VM
- **Install Kubuntu**
- Initial configuration
- Software removal



3b) Install Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
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 - Software removal

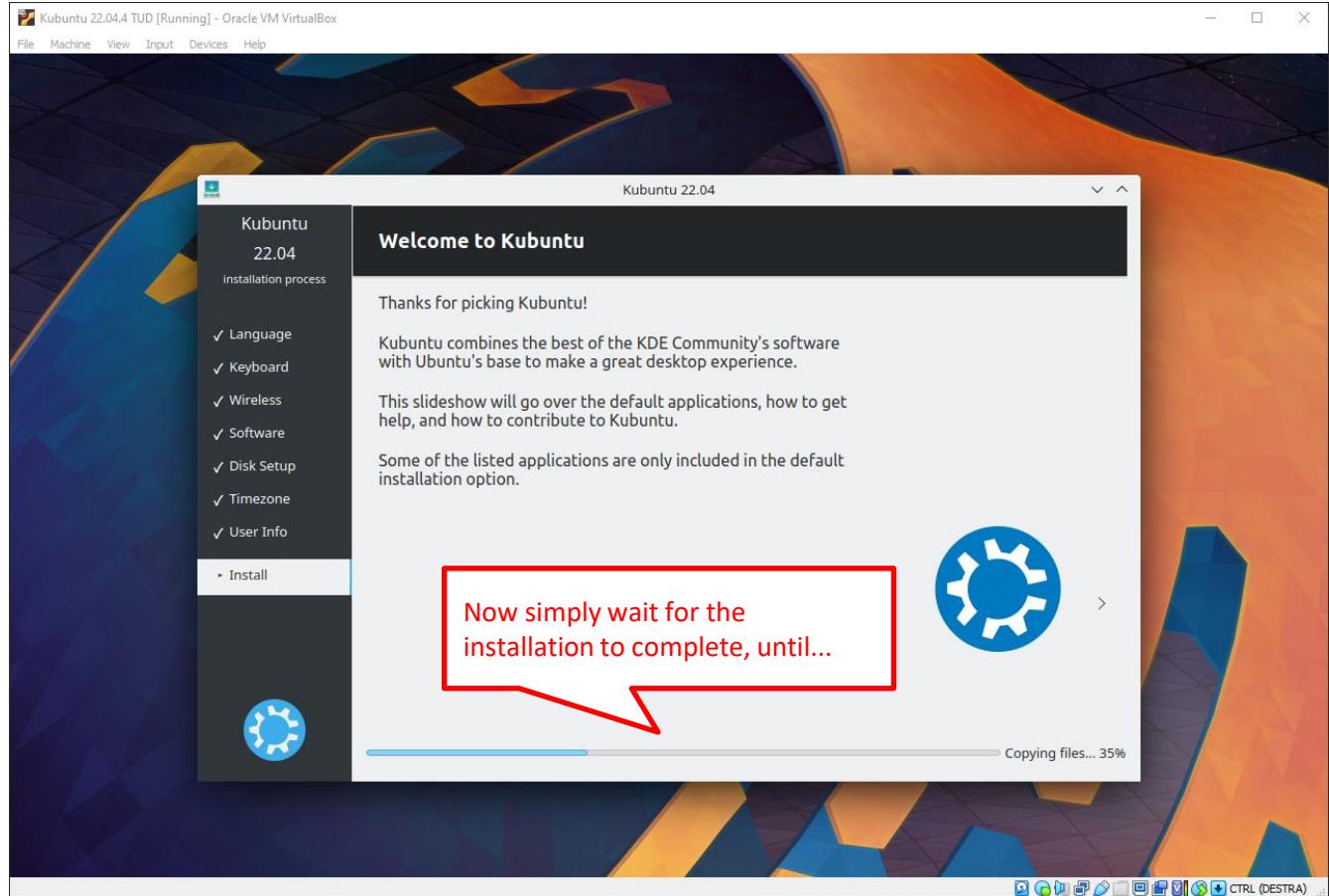


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- **Install Kubuntu**
- Initial configuration

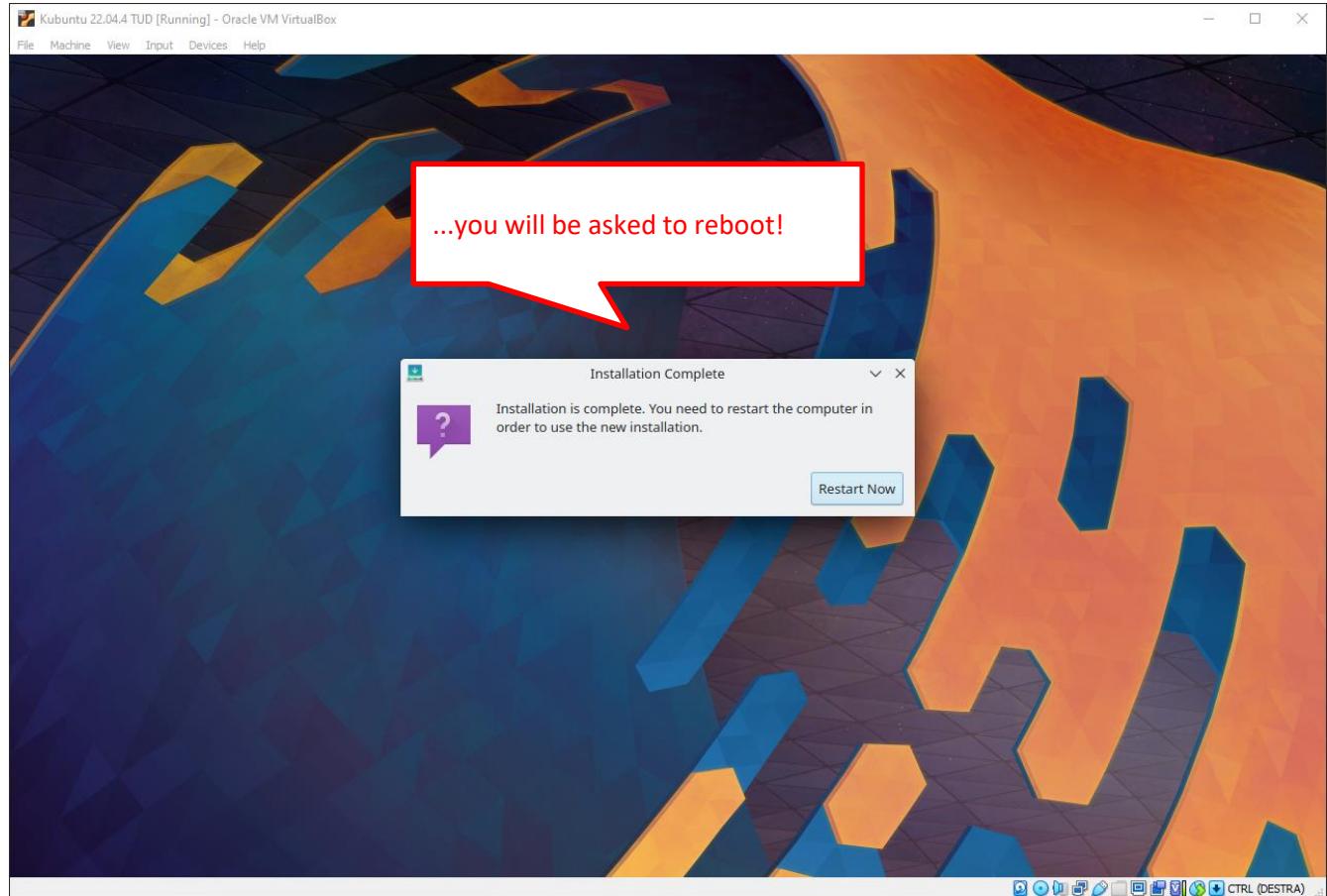
Software removal



3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- Create a VM
- **Install Kubuntu**
- Initial configuration
- Software removal

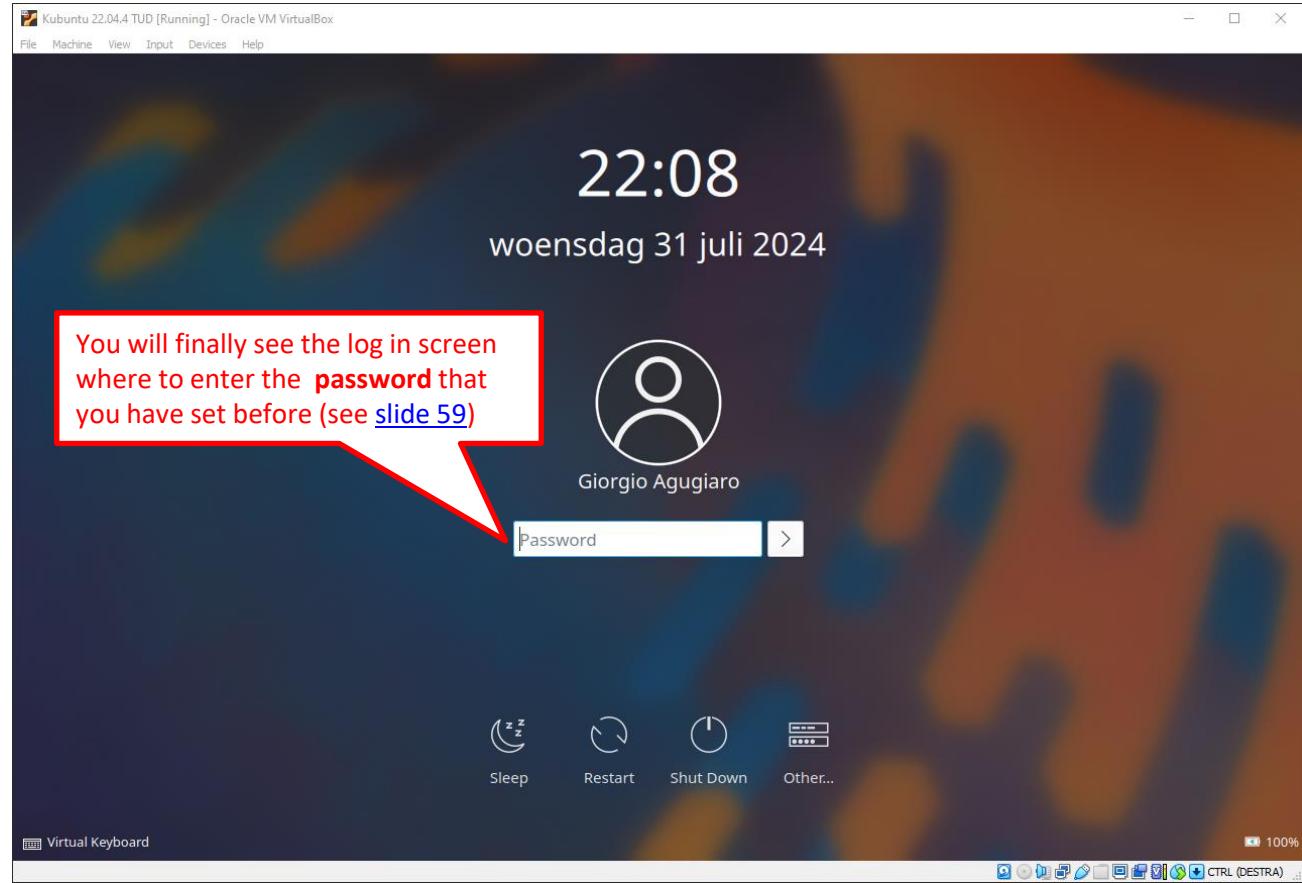


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

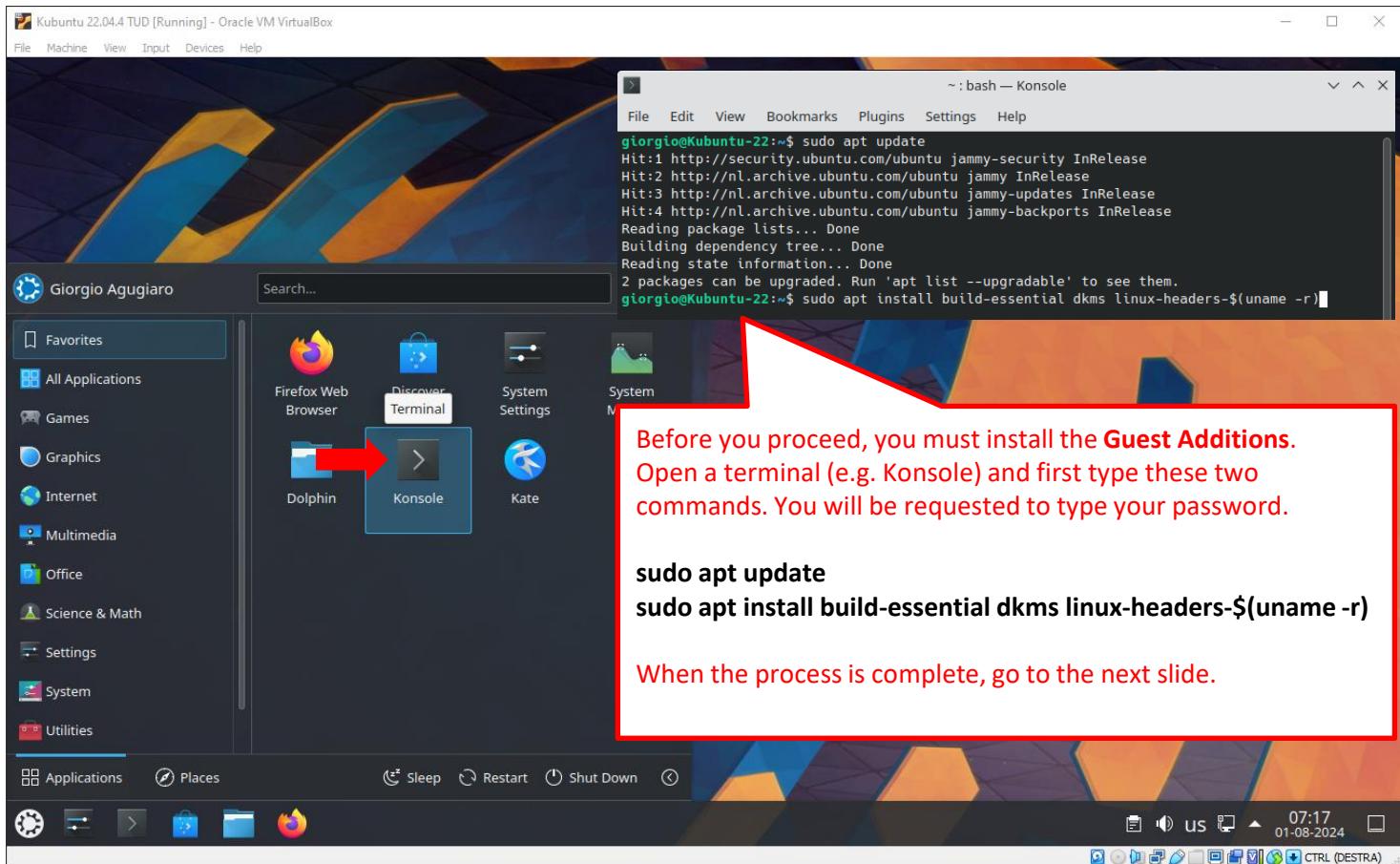
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- **Install Kubuntu**
- Initial configuration

Software removal



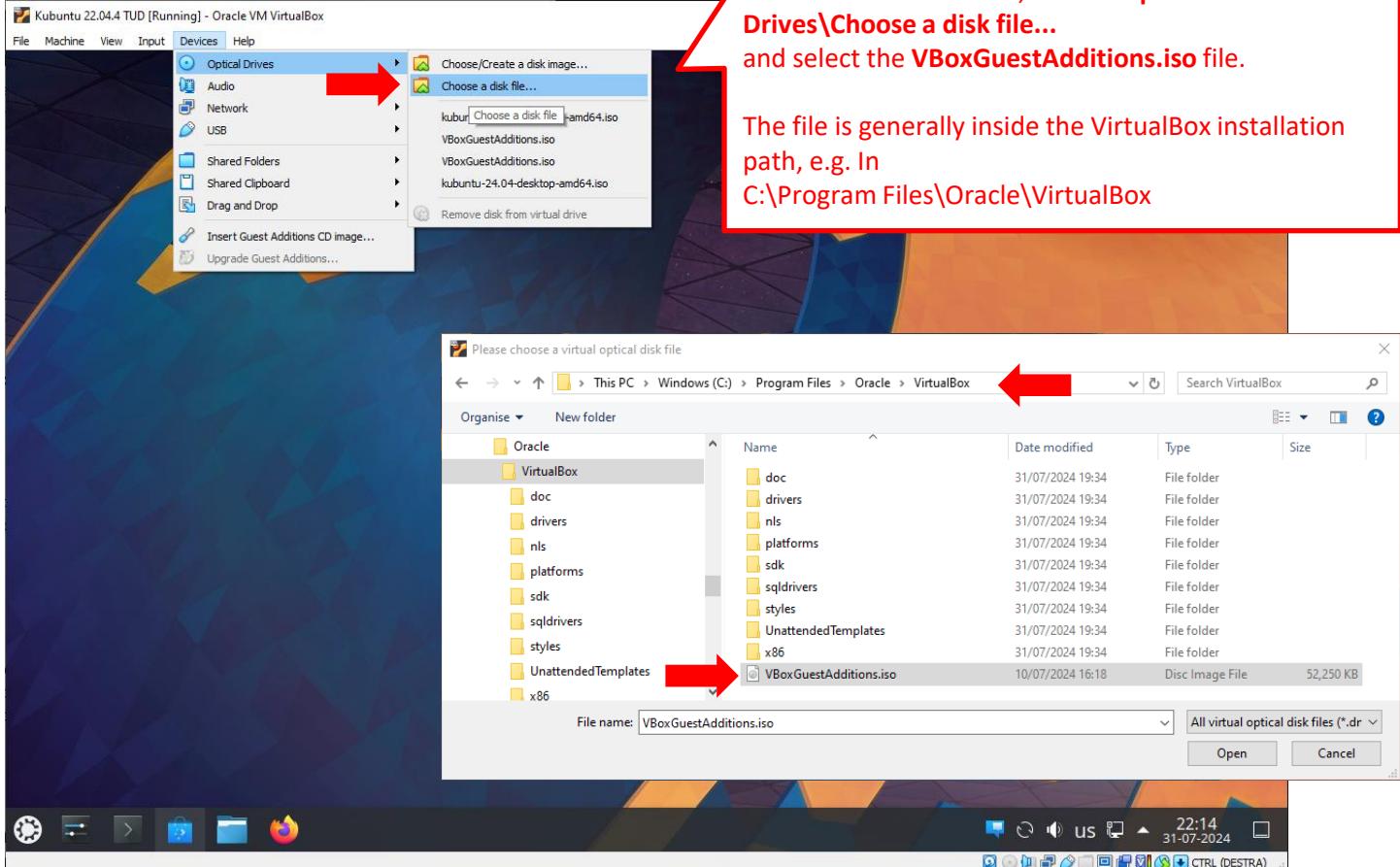
3b) Install Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
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 - Initial configuration
 - Software removal



3b) Install Kubuntu

- [VirtualBox overview](#)
- [Kubuntu overview](#)
- Stepwise setup**
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 - Install Kubuntu**
 - Initial configuration
 - [Software removal](#)

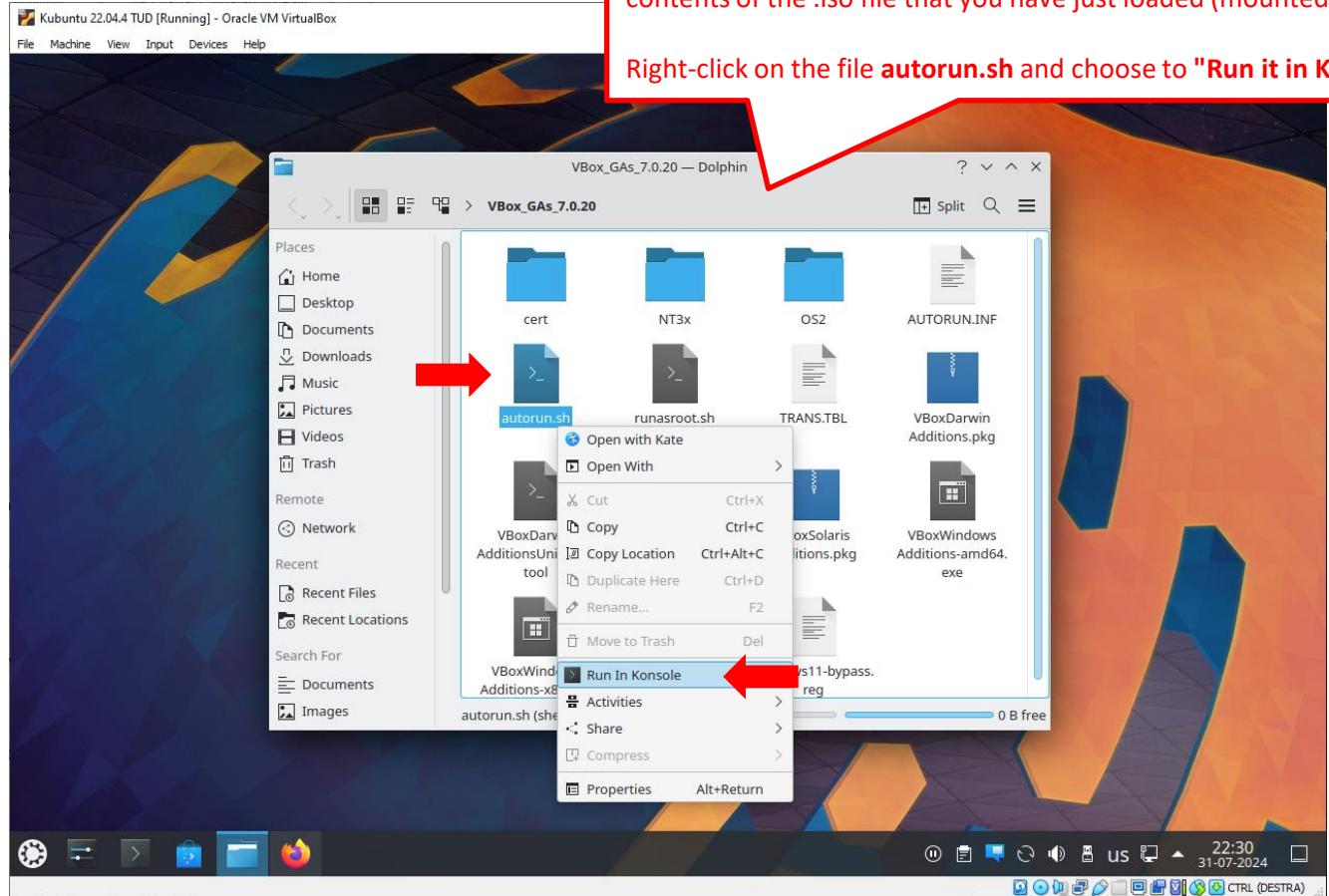


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- **Install Kubuntu**
- Initial configuration

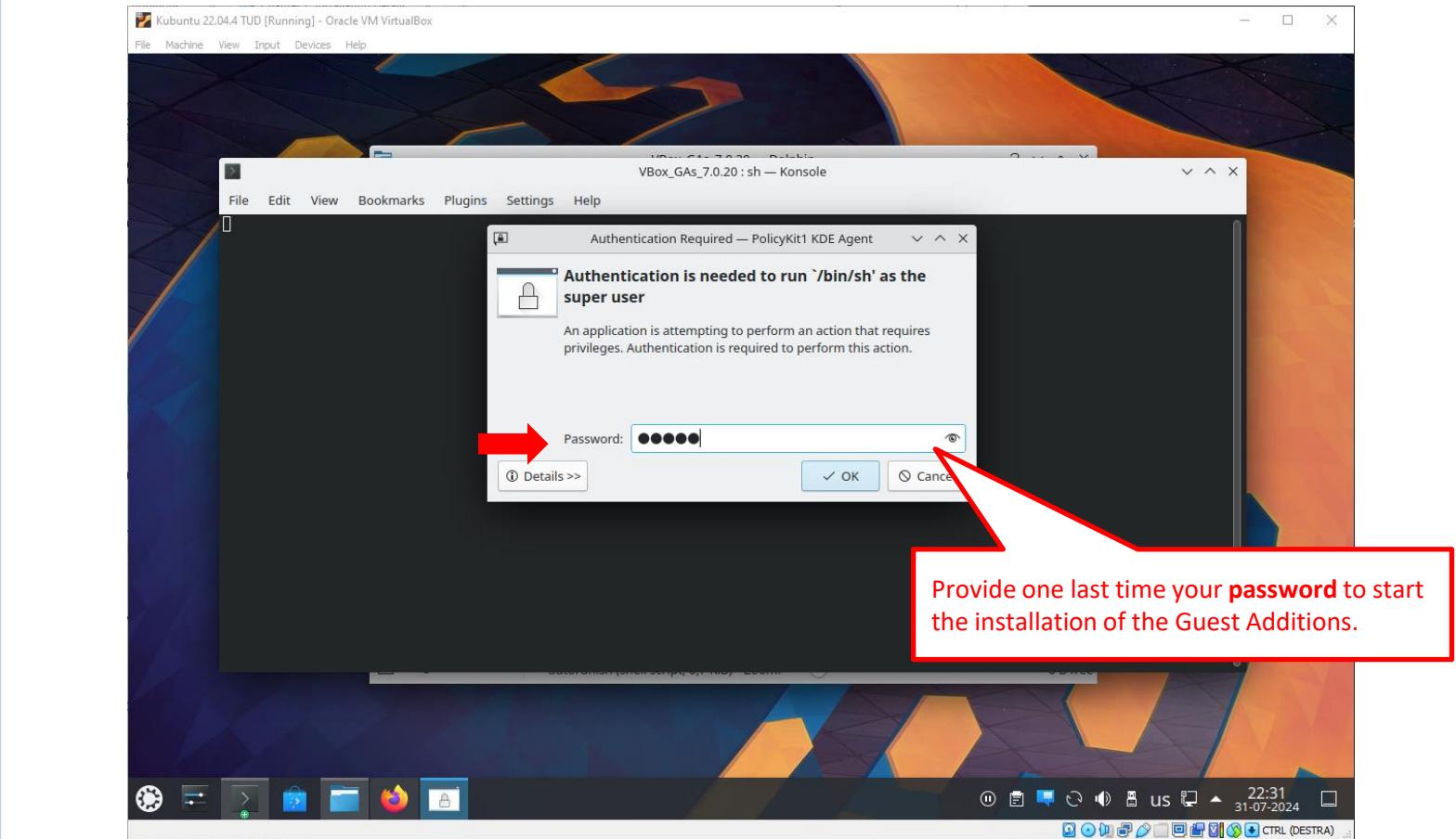
Software removal



3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- **Install Kubuntu**
- Initial configuration
- Software removal

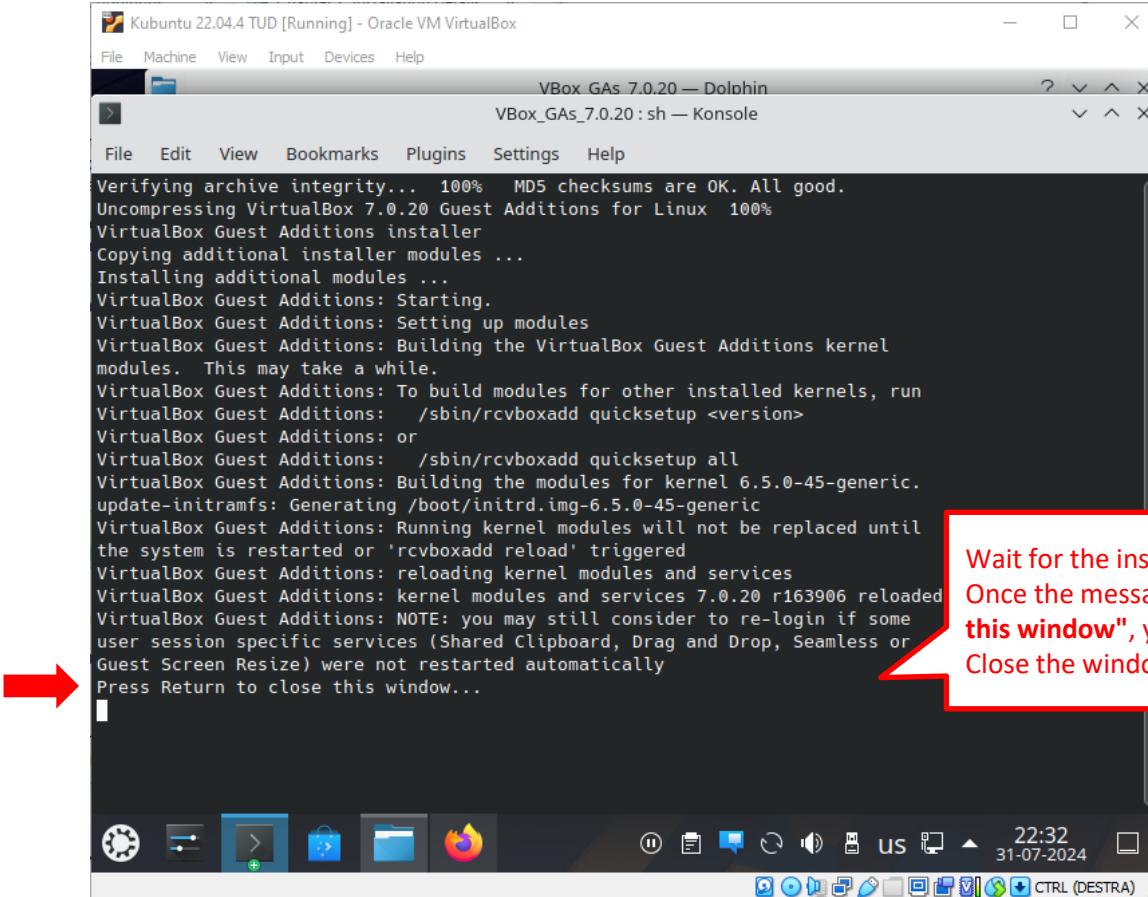


3b) Install Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- Initial configuration

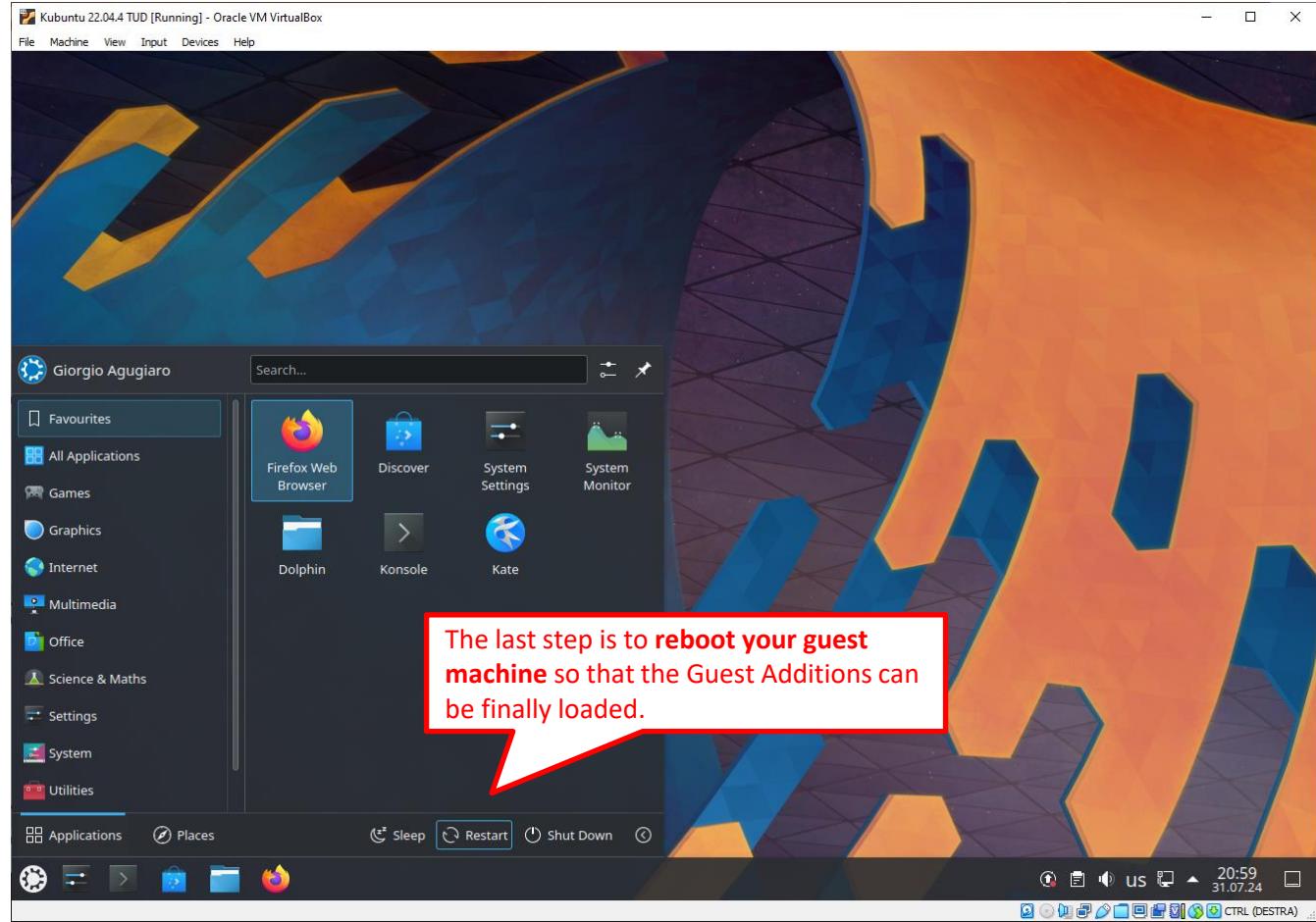
Software removal



Wait for the installation process to finish.
Once the message "Press return to close this window", you can proceed.
Close the window.

3b) Install Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
 - Install VirtualBox
 - Create a VM
 - Install Kubuntu**
 - Initial configuration
 - Software removal



Kubuntu on VirtualBox on Windows

Procedure overview:

- 1) Download the software (VirtualBox installer, Kubuntu, etc.)
- 2) Install VirtualBox
- 3) Create a Virtual Machine & install Kubuntu
- 4) **Initial configuration of Kubuntu**

Done! 😊

4) Initial configuration of Kubuntu

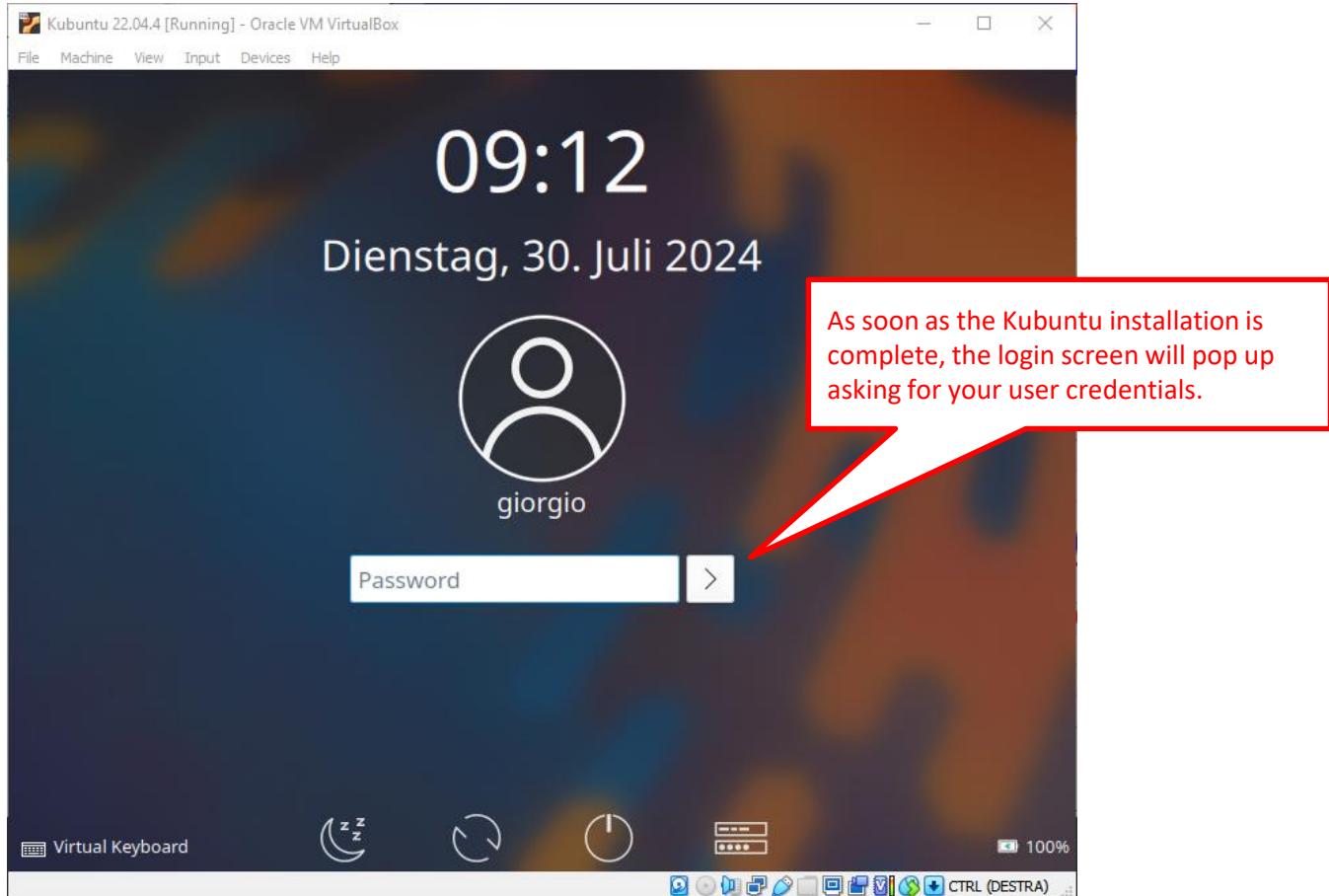
Once Kubuntu has been installed, you can log in using your credentials.

It is now time to carry out the first set-up operations from within Kubuntu, such as:

- Installing updates
- Checking that the Guest Additions have been installed correctly
- Changing (if necessary) Kubuntu's display resolution
- Setting up (if necessary) date, time, and time zone
- Adding (if desired) a new language for the GUI
- Adding (if desired) a new keyboard layout
- Setting up a shared folder to exchange files between the host and the guest machines
- Installing some useful packages
- Additional custom settings

4) Initial configuration of Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
 - Install VirtualBox
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 - Install Kubuntu
 - Initial configuration**
 - Software removal

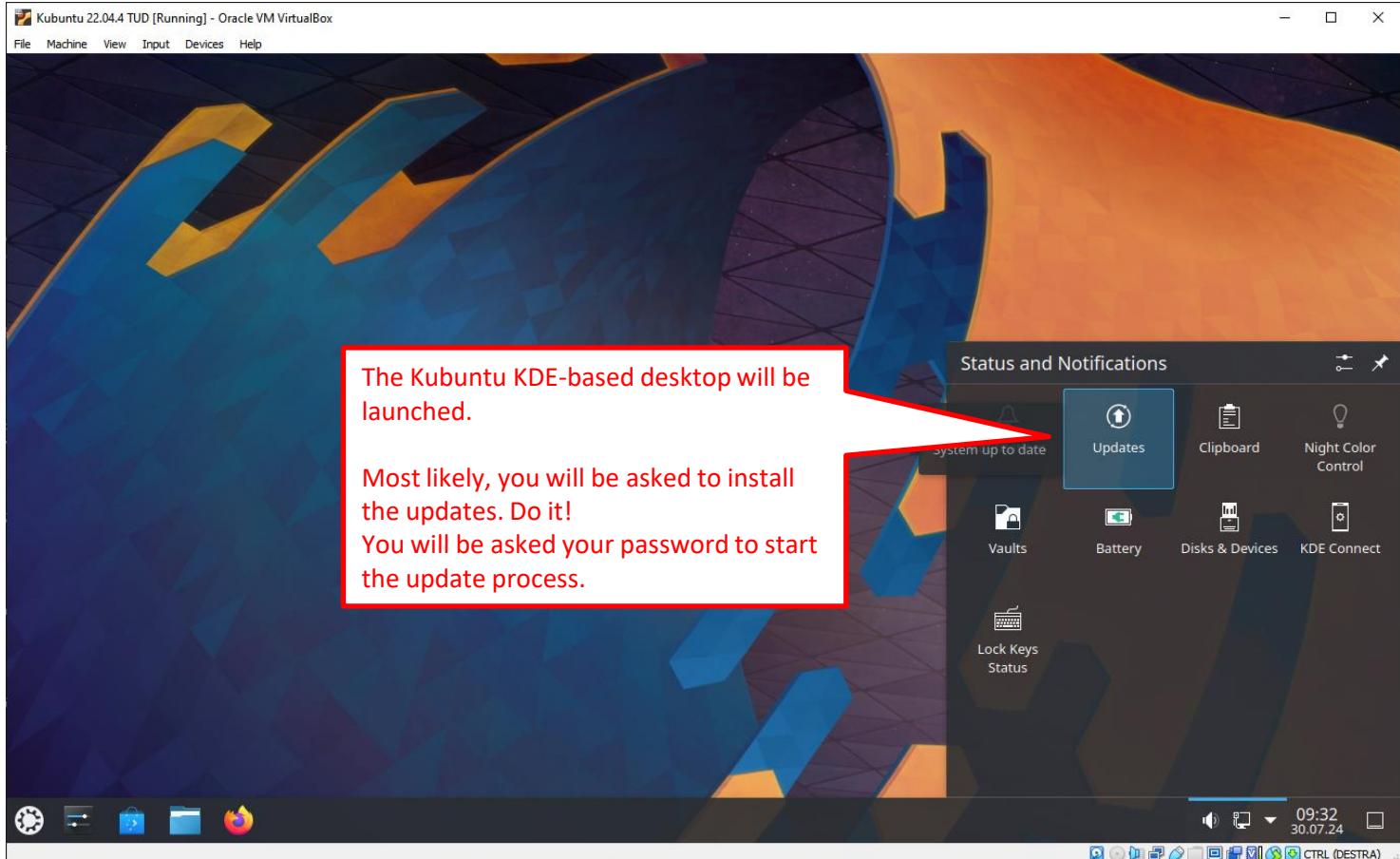


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- Create a VM
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- **Initial configuration**

Software removal

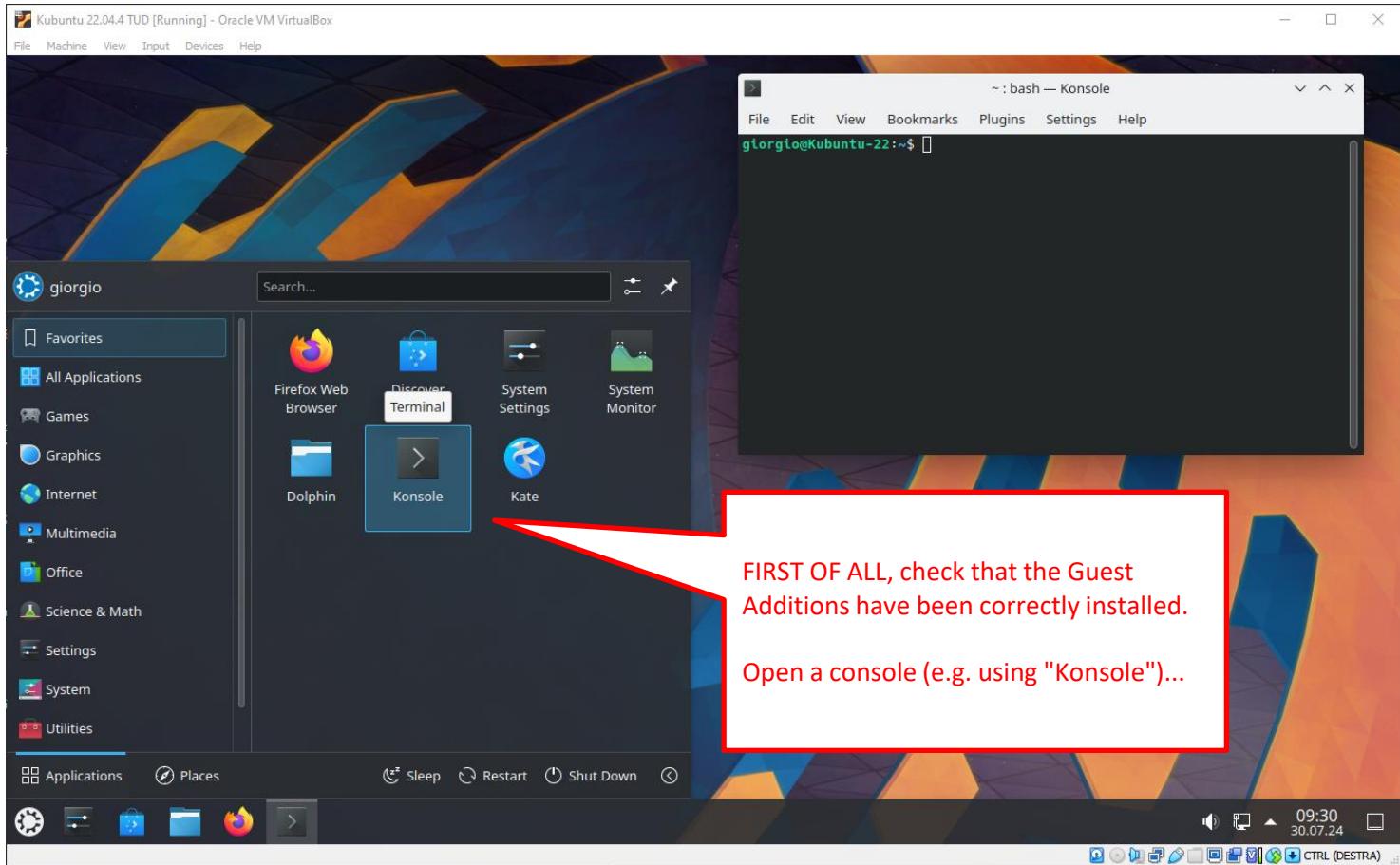


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
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- Install Kubuntu
- **Initial configuration**

Software removal



4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview

Stepwise setup

- Download software
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- Install Kubuntu
- **Initial configuration**

Software removal

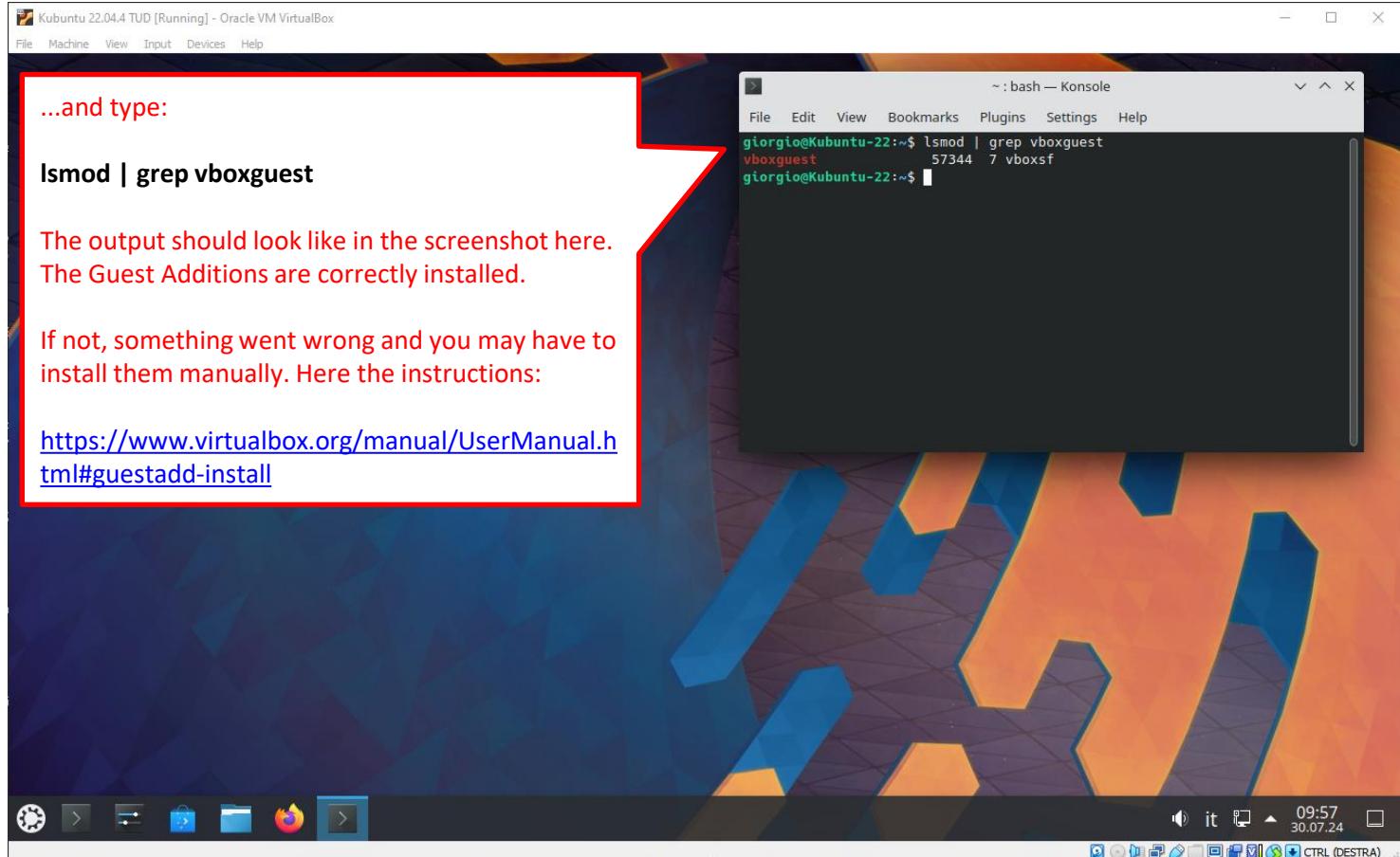
...and type:

`lsmod | grep vboxguest`

The output should look like in the screenshot here.
The Guest Additions are correctly installed.

If not, something went wrong and you may have to
install them manually. Here the instructions:

<https://www.virtualbox.org/manual/UserManual.html#guestadd-install>

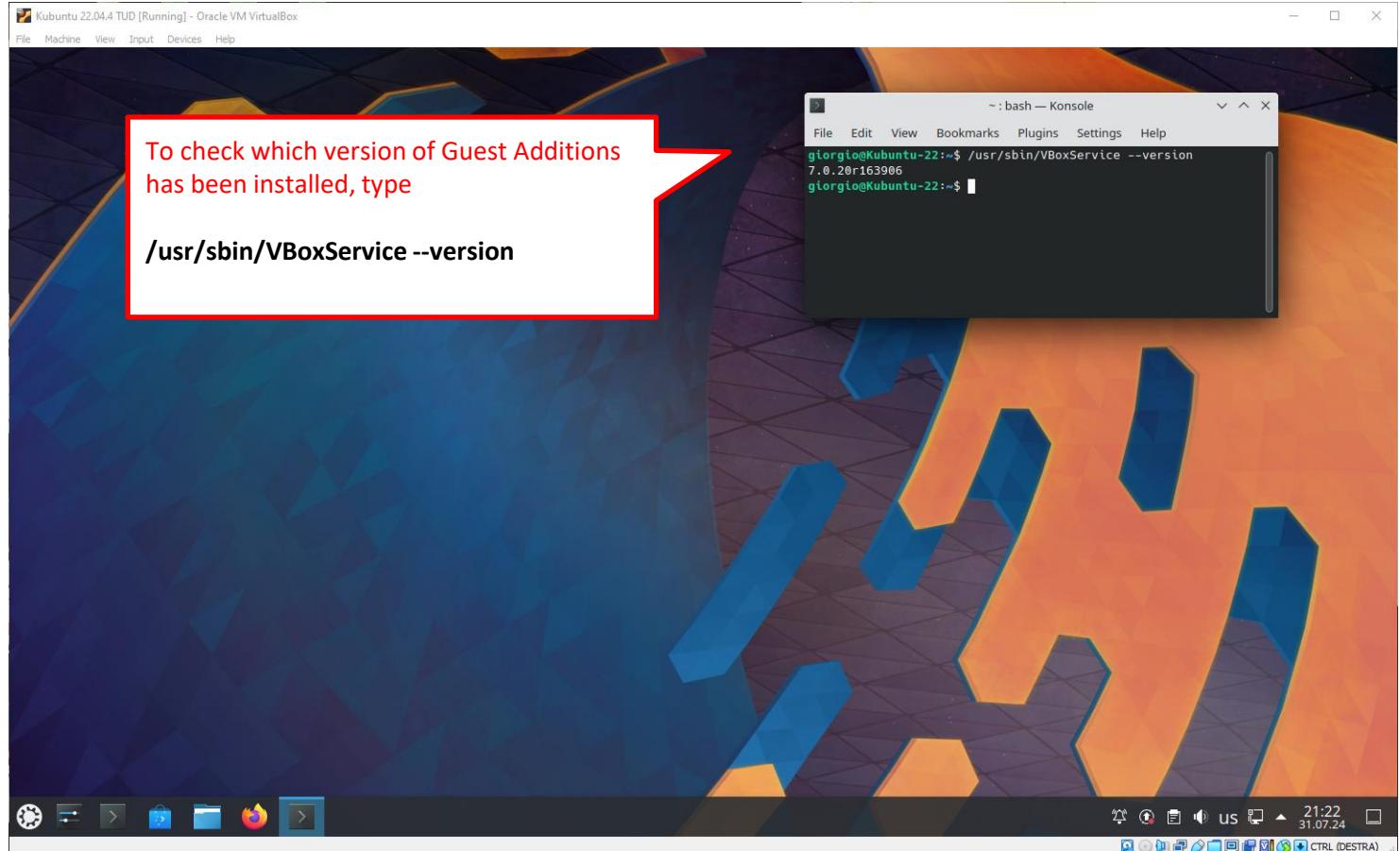


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

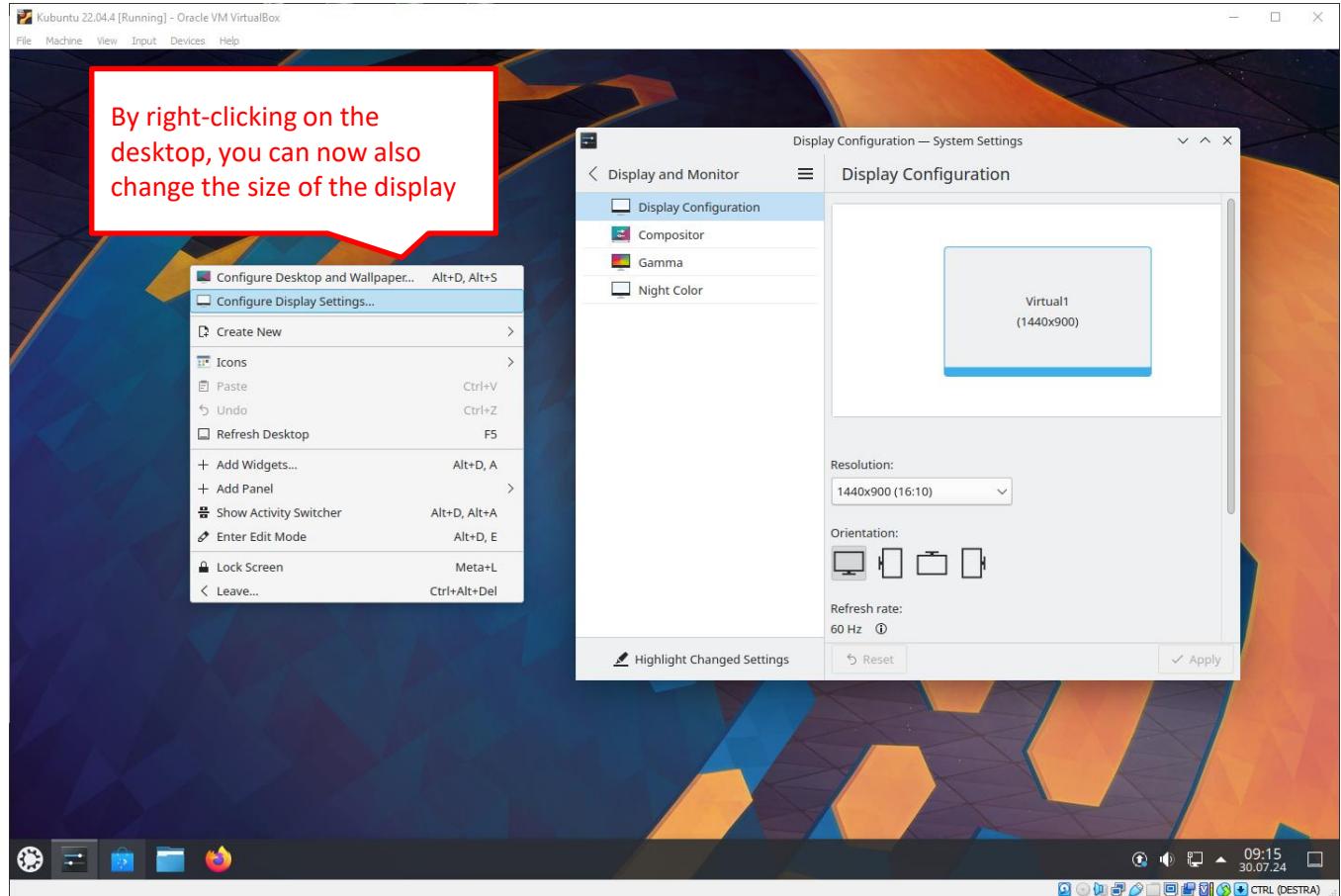
- Download software
- Install VirtualBox
- Create a VM
- Install Kubuntu
- **Initial configuration**

Software removal



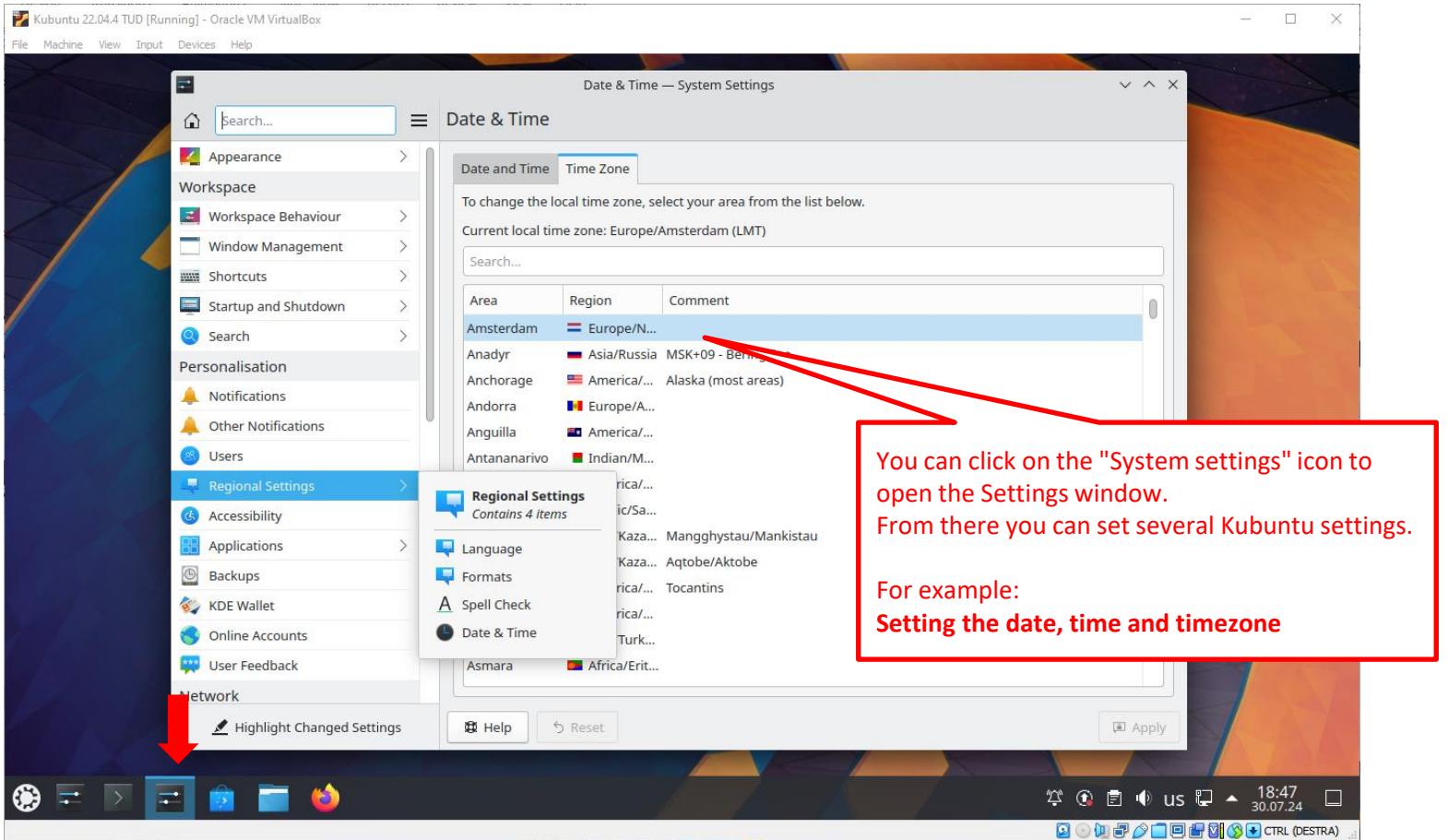
4) Initial configuration of Kubuntu

- VirtualBox overview
- Kubuntu overview
- Stepwise setup**
 - Download software
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 - Create a VM
 - Install Kubuntu
 - Initial configuration**
 - Software removal



4) Initial configuration of Kubuntu

- VirtualBox overview
- Kubuntu overview
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 - Create a VM
 - Install Kubuntu
 - **Initial configuration**
- Software removal

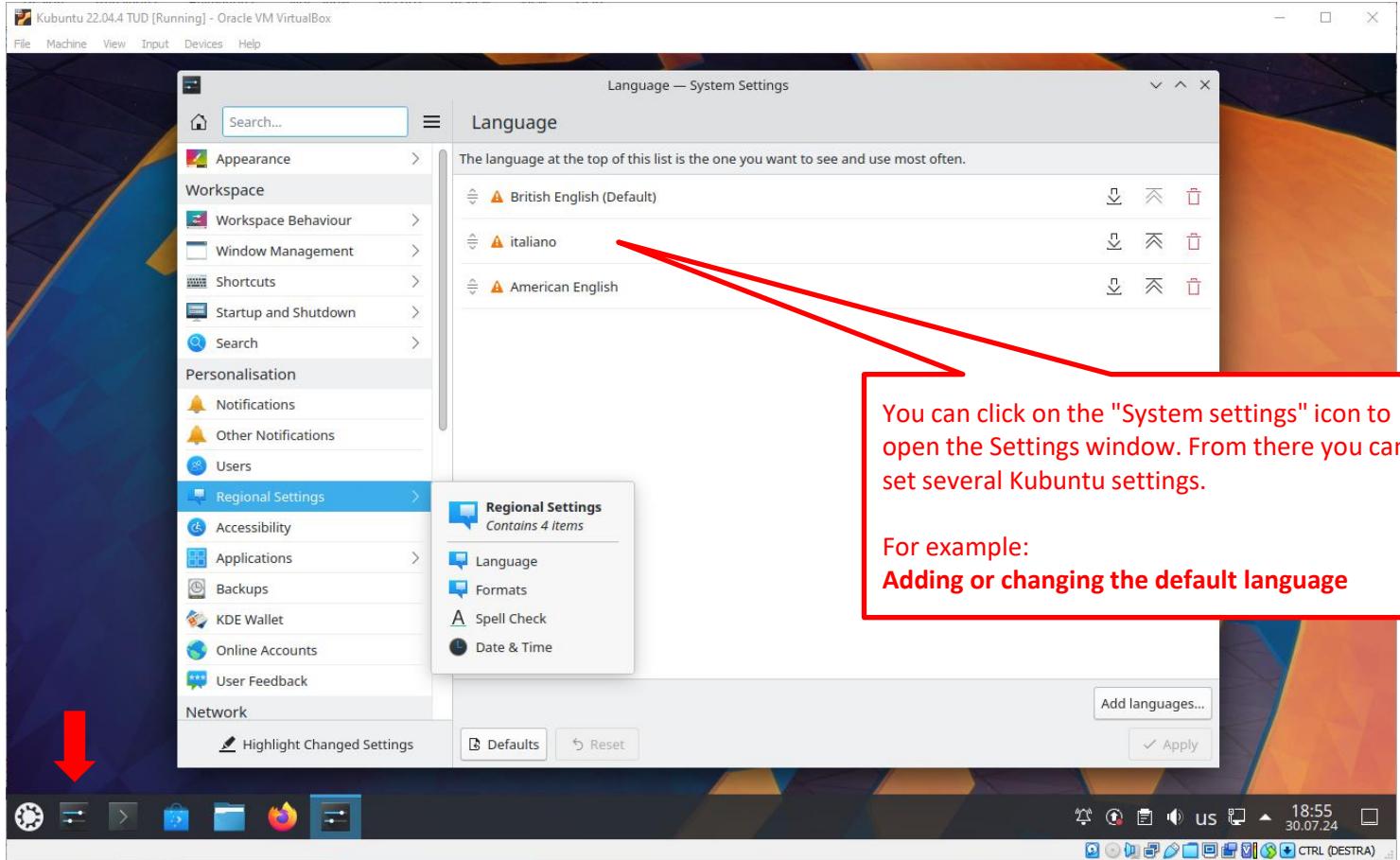


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

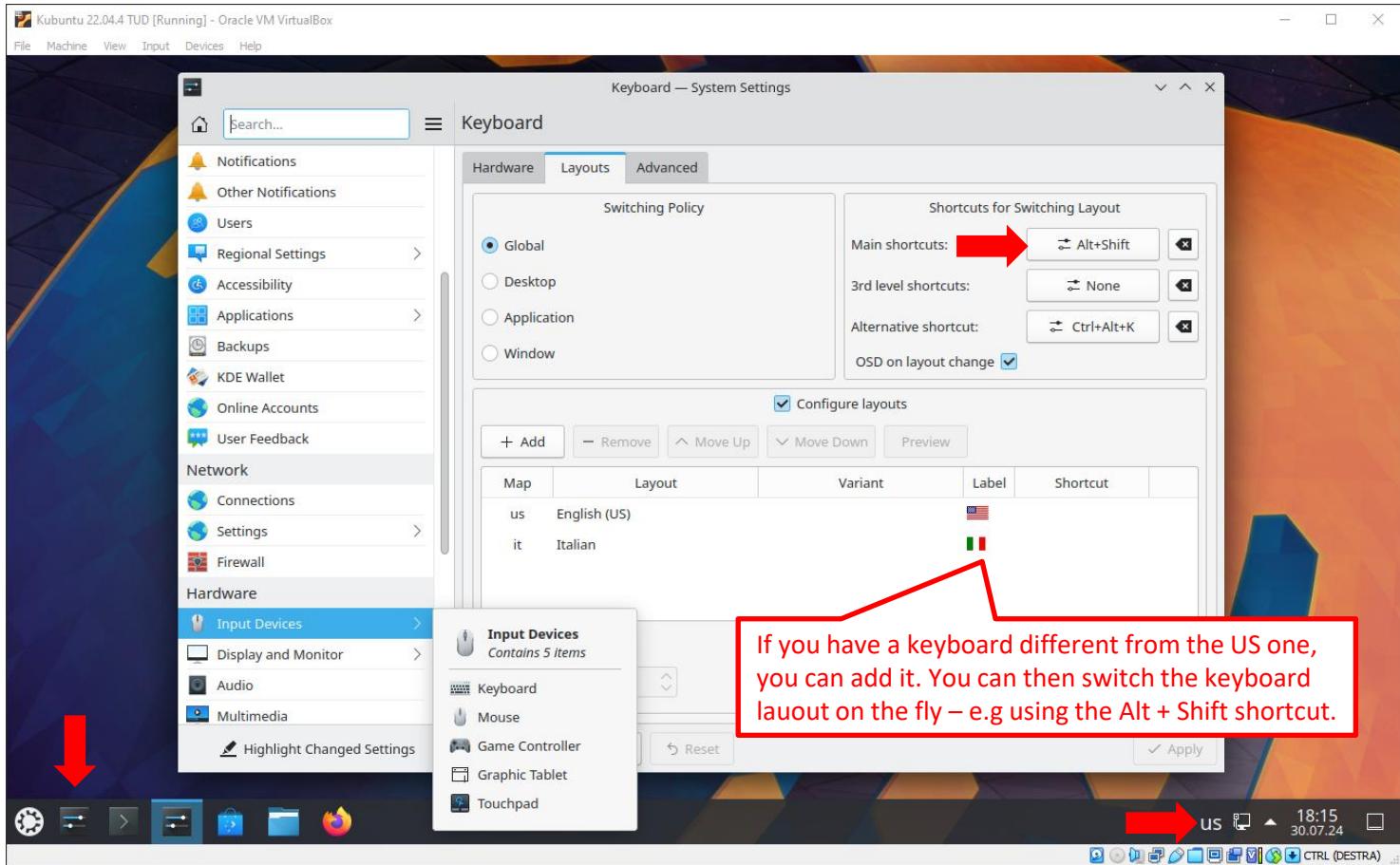
- Download software
- Install VirtualBox
- Create a VM
- Install Kubuntu
- **Initial configuration**

Software removal



4) Initial configuration of Kubuntu

- VirtualBox overview
- Kubuntu overview
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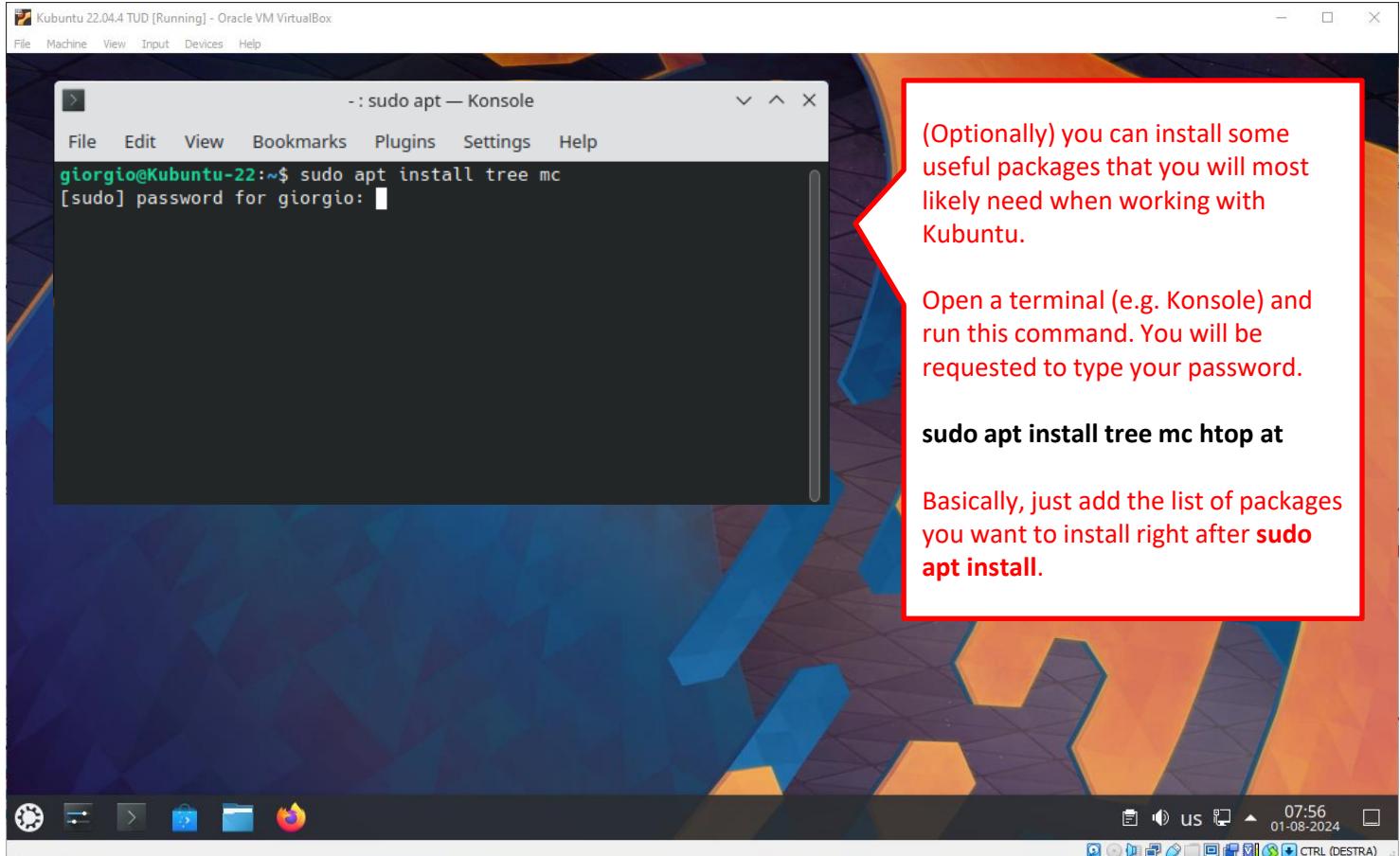


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

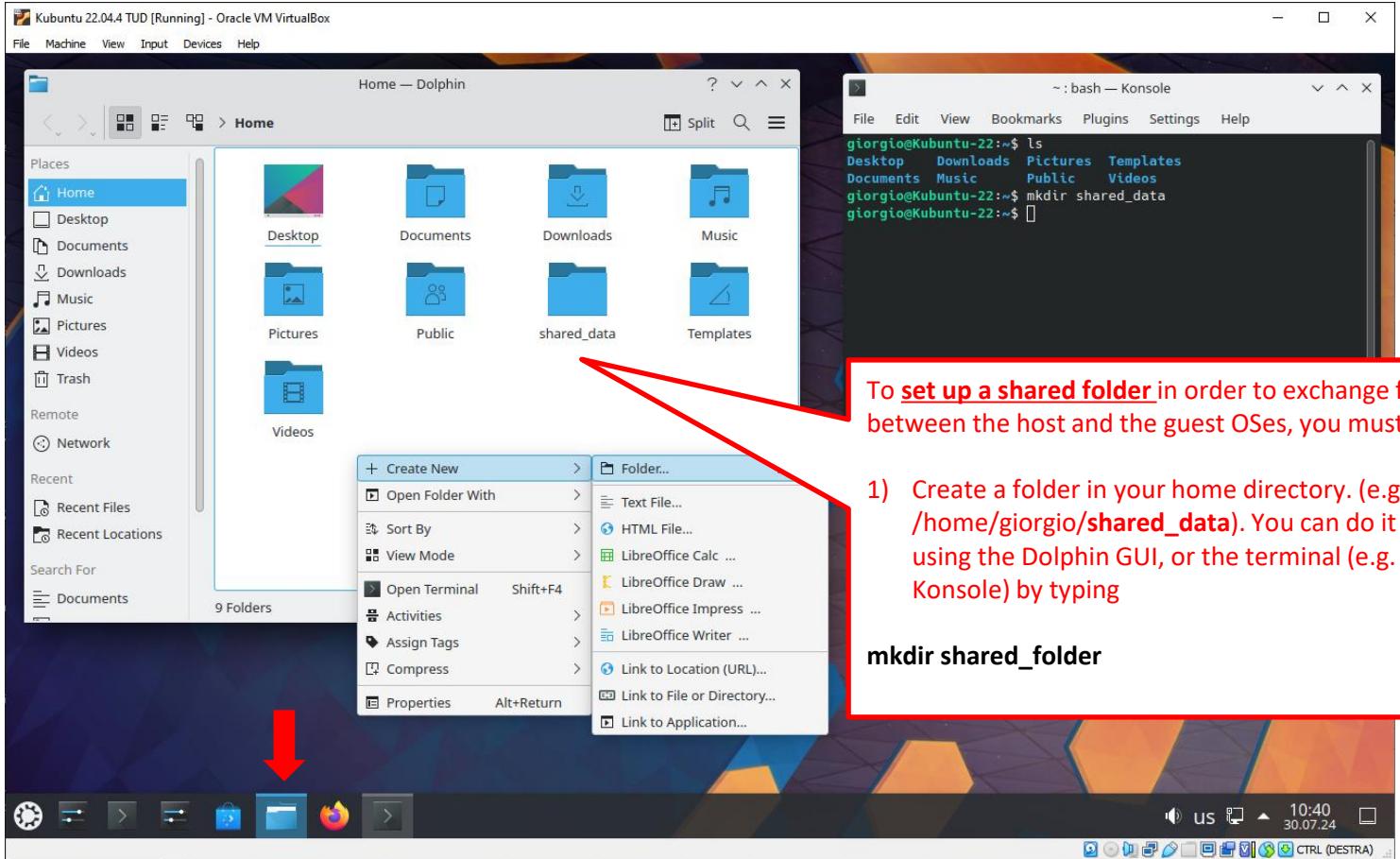
- Download software
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Software removal



4) Initial configuration of Kubuntu

VirtualBox overview
 Kubuntu overview
Stepwise setup
 • Download software
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 • **Initial configuration**
 Software removal



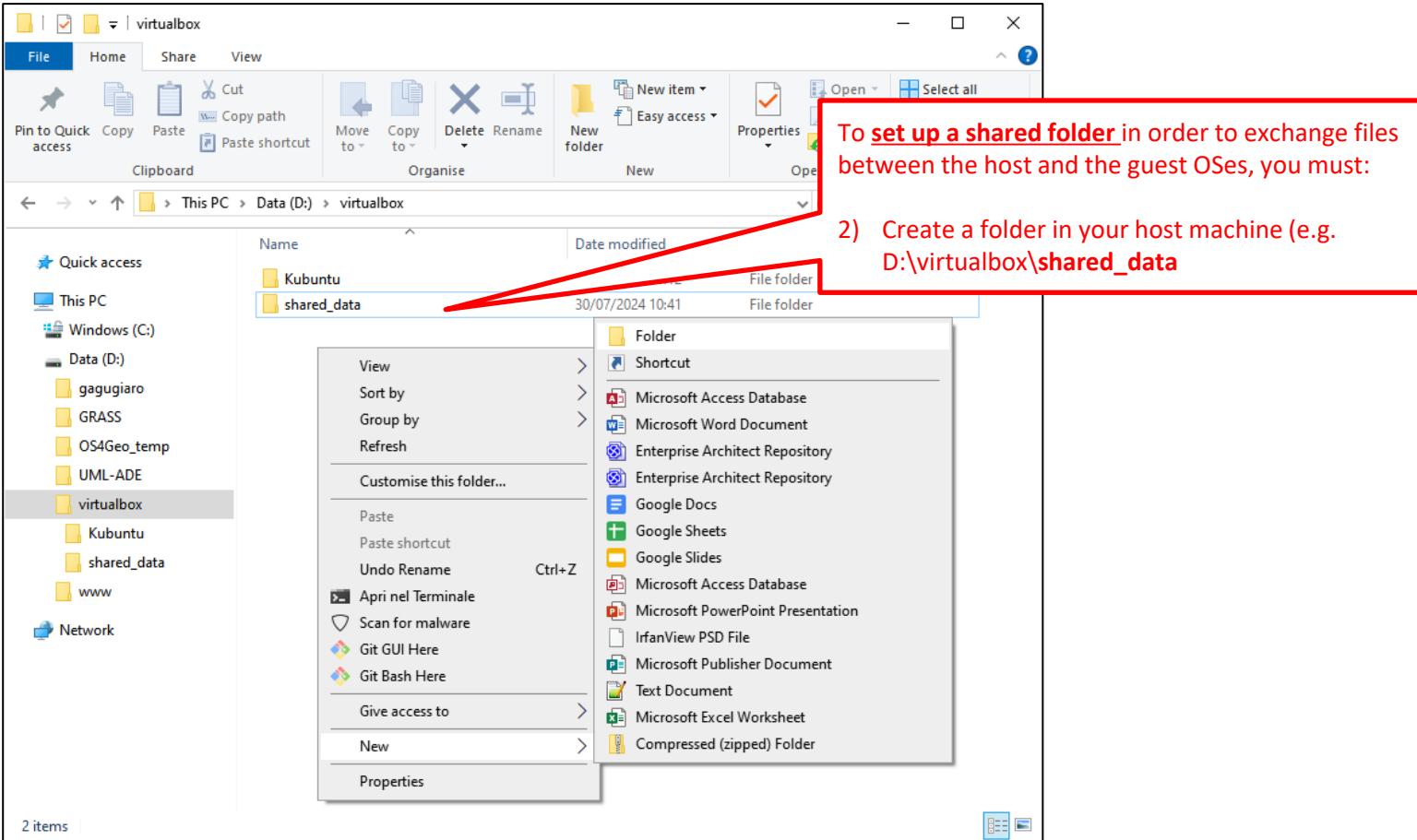
To **set up a shared folder** in order to exchange files between the host and the guest OSes, you must:

- 1) Create a folder in your home directory. (e.g. `/home/giorgio/shared_data`). You can do it using the Dolphin GUI, or the terminal (e.g. In Konsole) by typing

mkdir shared_folder

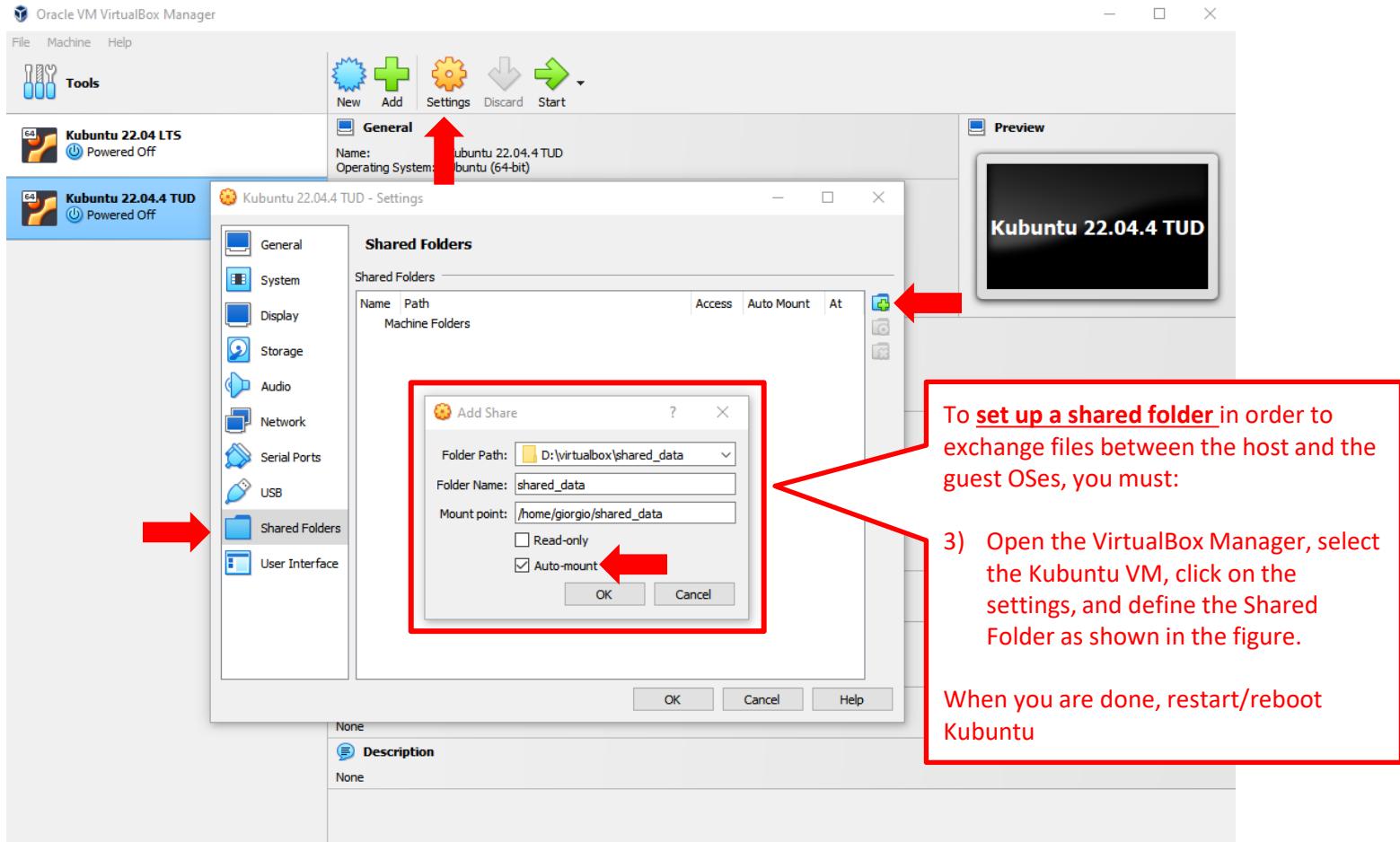
4) Initial configuration of Kubuntu

VirtualBox overview
 Kubuntu overview
Stepwise setup
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 • **Initial configuration**
 Software removal



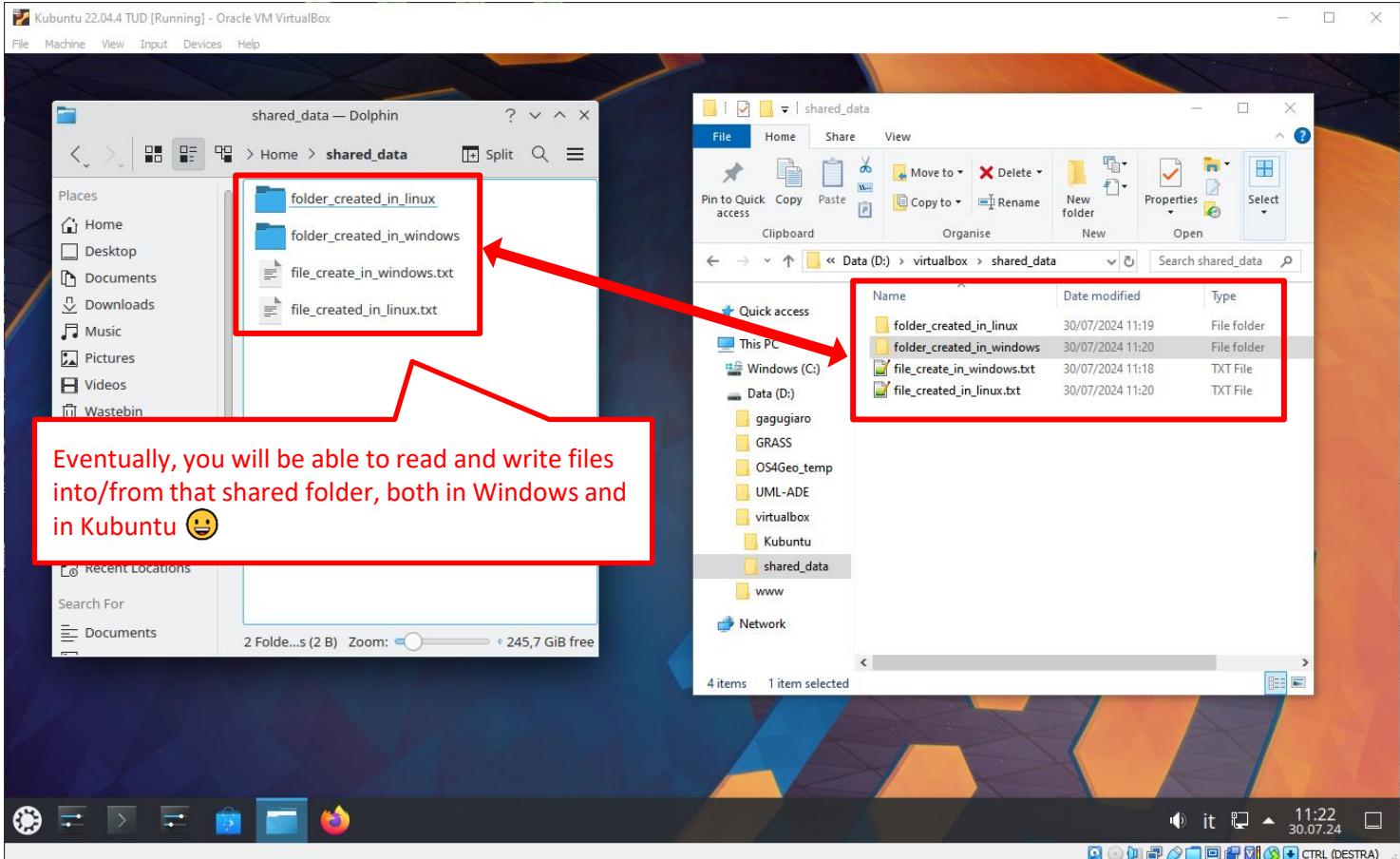
4) Initial configuration of Kubuntu

VirtualBox overview
 Kubuntu overview
Stepwise setup
 • Download software
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 • **Initial configuration**
 Software removal



4) Initial configuration of Kubuntu

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- Kubuntu overview
- Stepwise setup**
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 - Create a VM
 - Install Kubuntu
 - **Initial configuration**
- Software removal

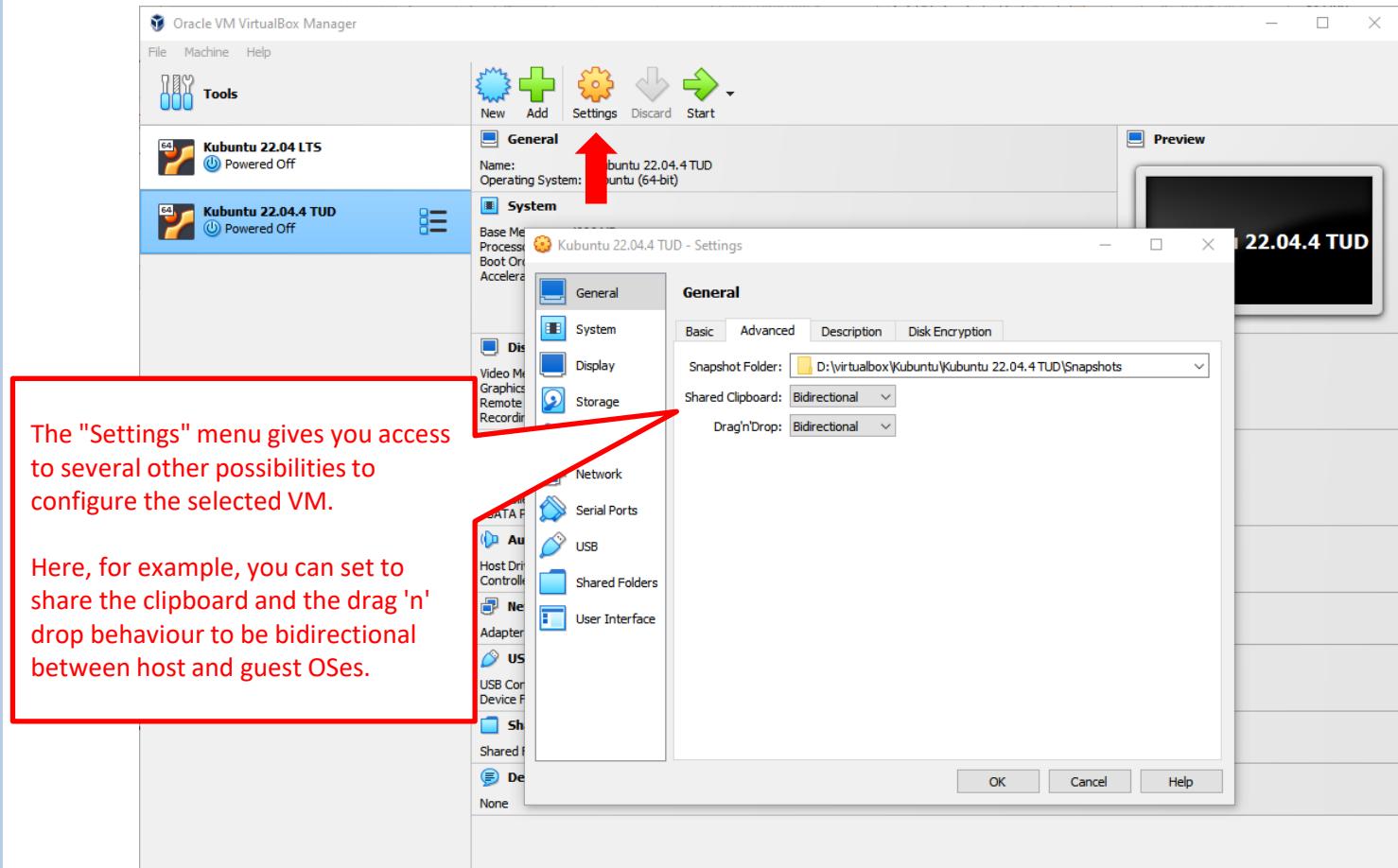


4) Initial configuration of Kubuntu

VirtualBox overview
Kubuntu overview
Stepwise setup

- Download software
- Install VirtualBox
- Create a VM
- Install Kubuntu
- **Initial configuration**

Software removal



Kubuntu via VirtualBox on Windows

Procedure overview:

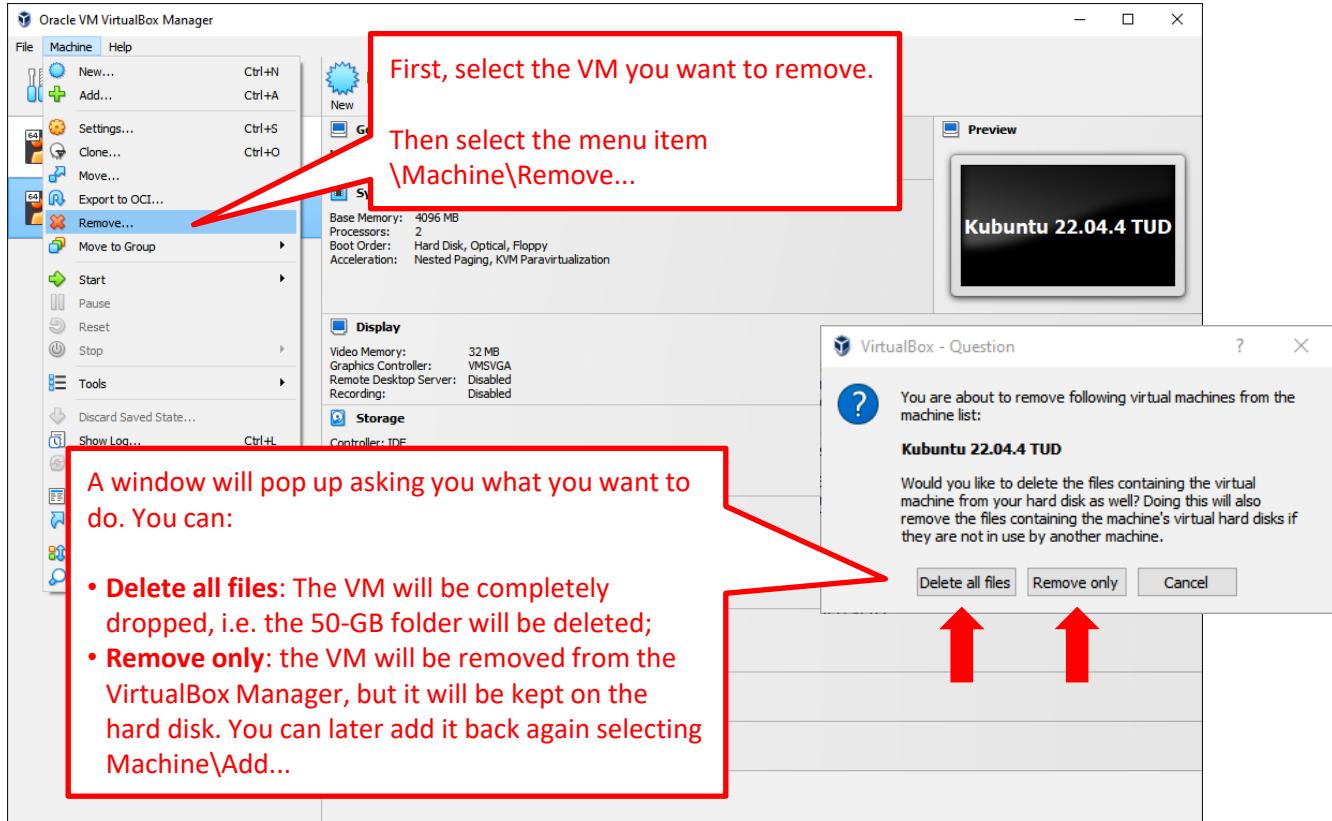
- 1) Download the software (VirtualBox installer, Kubuntu, etc.)
- 2) Install VirtualBox
- 3) Create a Virtual Machine & install Kubuntu
- 4) Initial configuration of Kubuntu

Done! 😊

Software removal

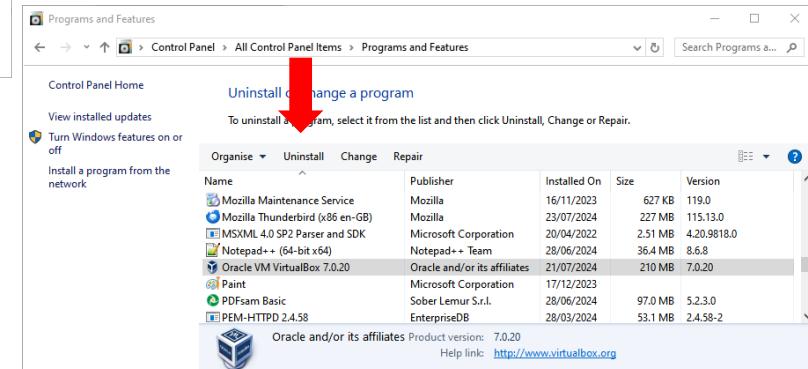
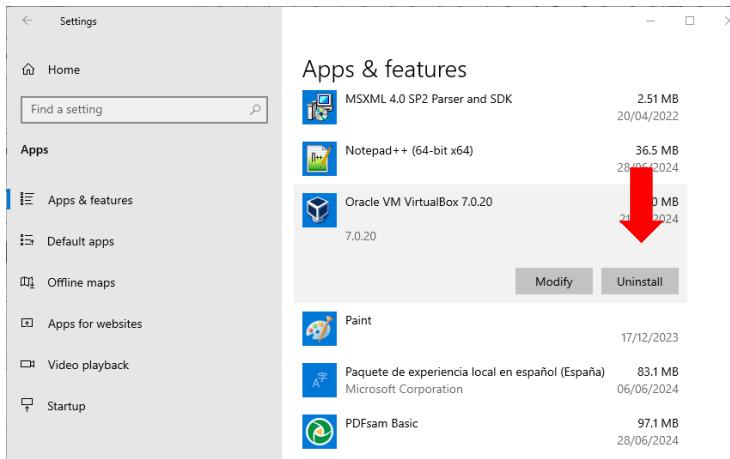
You can remove any previously created Virtual Machine using the VirtualBox Manager

VirtualBox overview
Kubuntu overview
Stepwise setup
Software removal



Software removal

To **uninstall Oracle VirtualBox**, you proceed as usual via Window's Control Panel\Programs and Features or, alternatively, Settings\Apps to uninstall it.





Dr. Giorgio Agugiaro

g.agugiaro@tudelft.nl

3D Geoinformation Group

TU Delft

The Netherlands

<https://3d.bk.tudelft.nl/gagugiaro>