

Assignment - Additional installation of the graphical environment

Task

Description: Using the system from the virtual machine "DL-LINUX-01", in addition to the existing graphical environment, the KDE desktop environment should be installed.

Note: The solution must be submitted according to the "step by step" system with accompanying screenshots of each important segment of the solution, with a detailed description and explanation of each step and each decision. The solution should be submitted in the format of a written paper, with screenshots in a Microsoft Word document in the form of a short technical essay. The source code of the script should be provided in the form of a text file.

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INTRODUCTION

This document presents a step-by-step approach to solving a specific task, outlining the methodology, execution, and expected outcomes. By following the instructions, the reader will gain hands-on experience in applying technical concepts to practical situations, reinforcing both theoretical knowledge and problem-solving abilities.

The structured approach ensures that each step is clearly defined, making the process easy to follow and implement in professional environments.

In this task, it is envisaged that another one will be installed on top of the existing GNOME desktop environment. Through this title, it will be textually shown which steps are necessary to perform the task smoothly and which commands were used in the Terminal.

Terminal Commands:

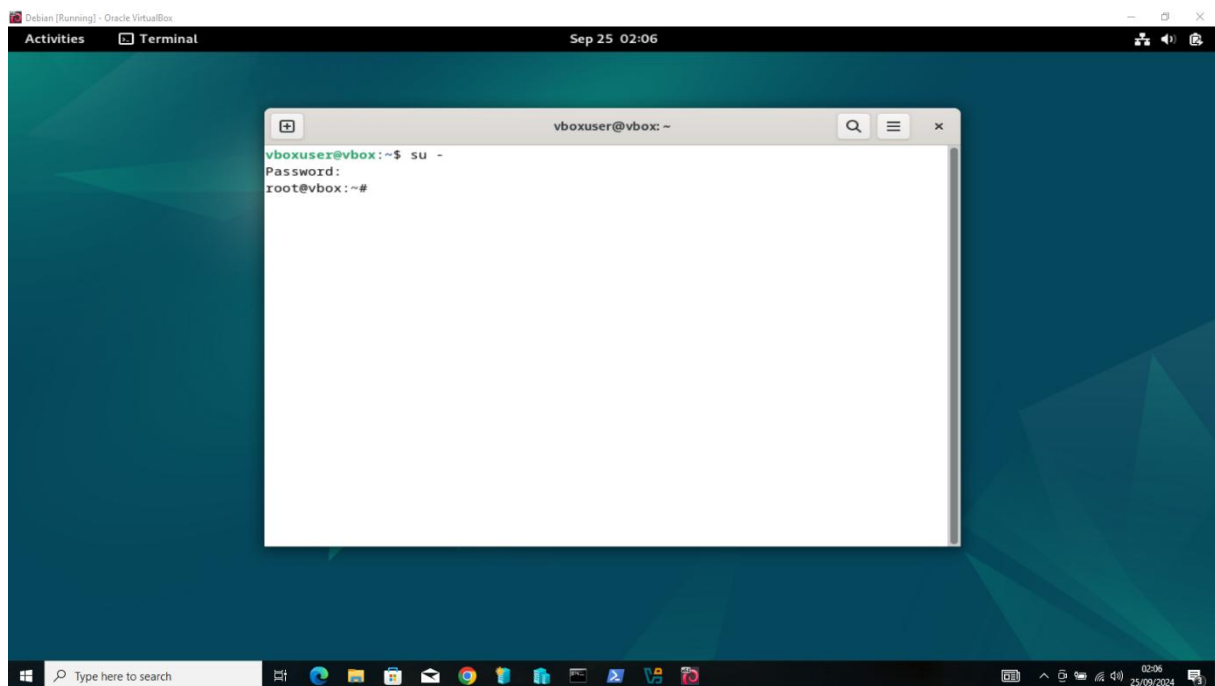
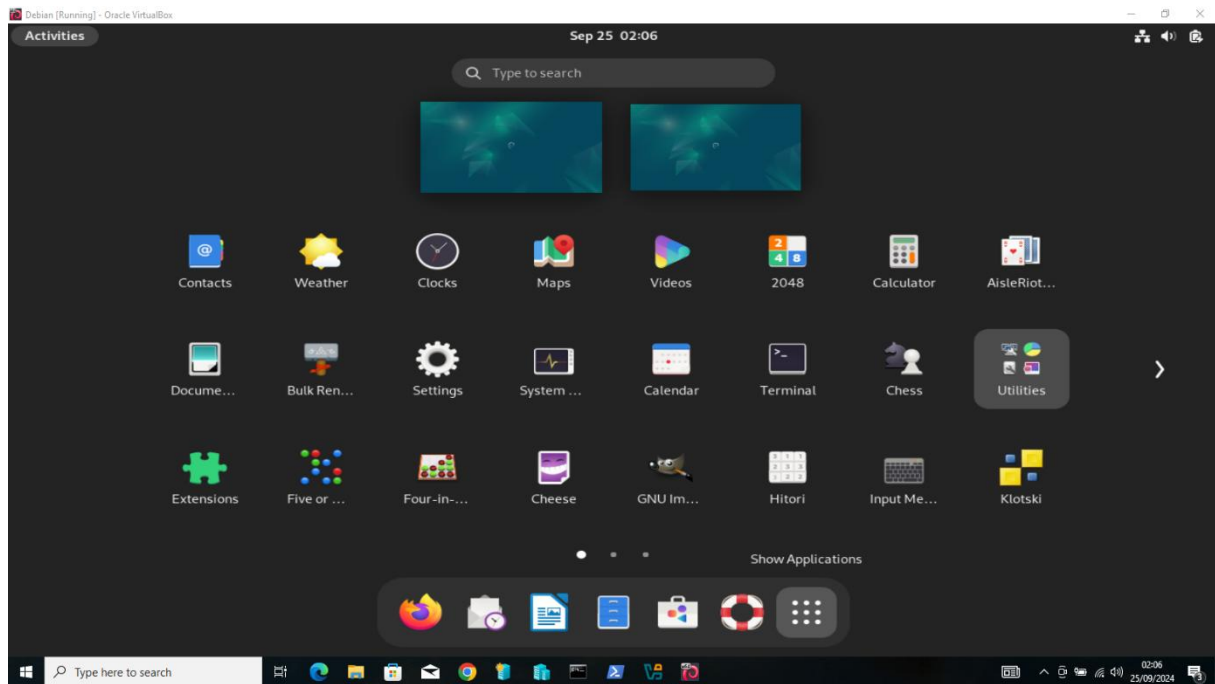
- **Are–**
- **Sudo apt update & sudo apt upgrade**
- **-y**
- **sudo apt install kde-plasma-desktop**
- **Sudo reboot**

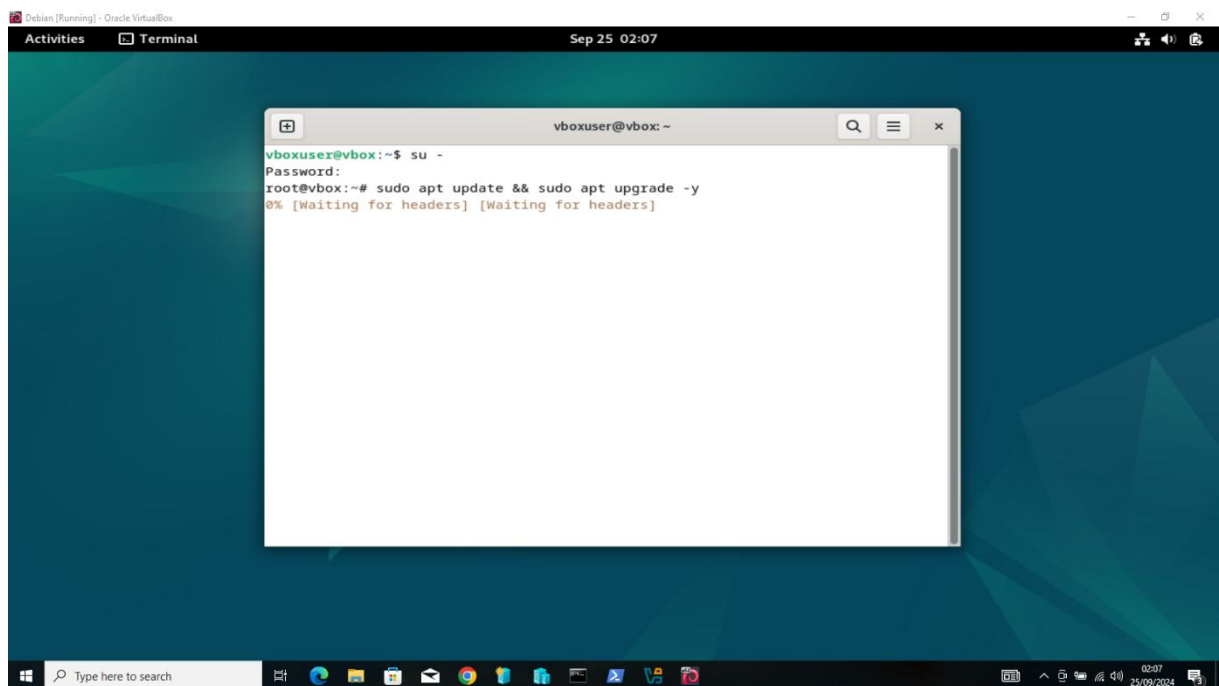
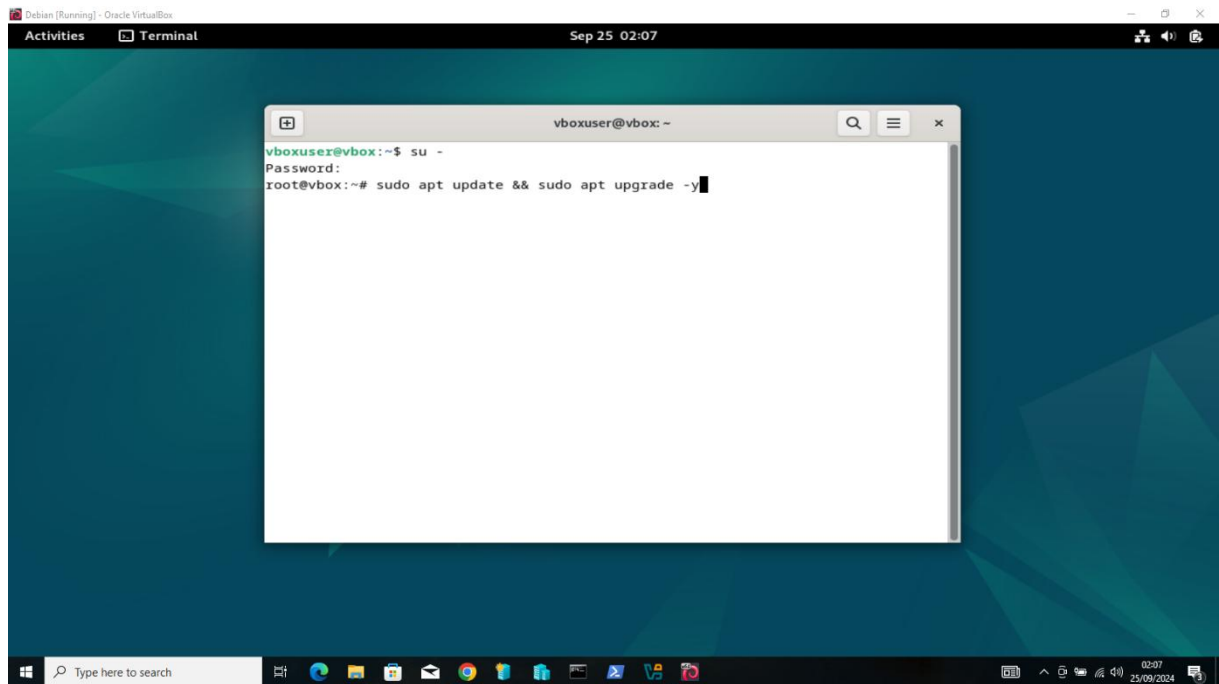
Su - , allows access to the root account

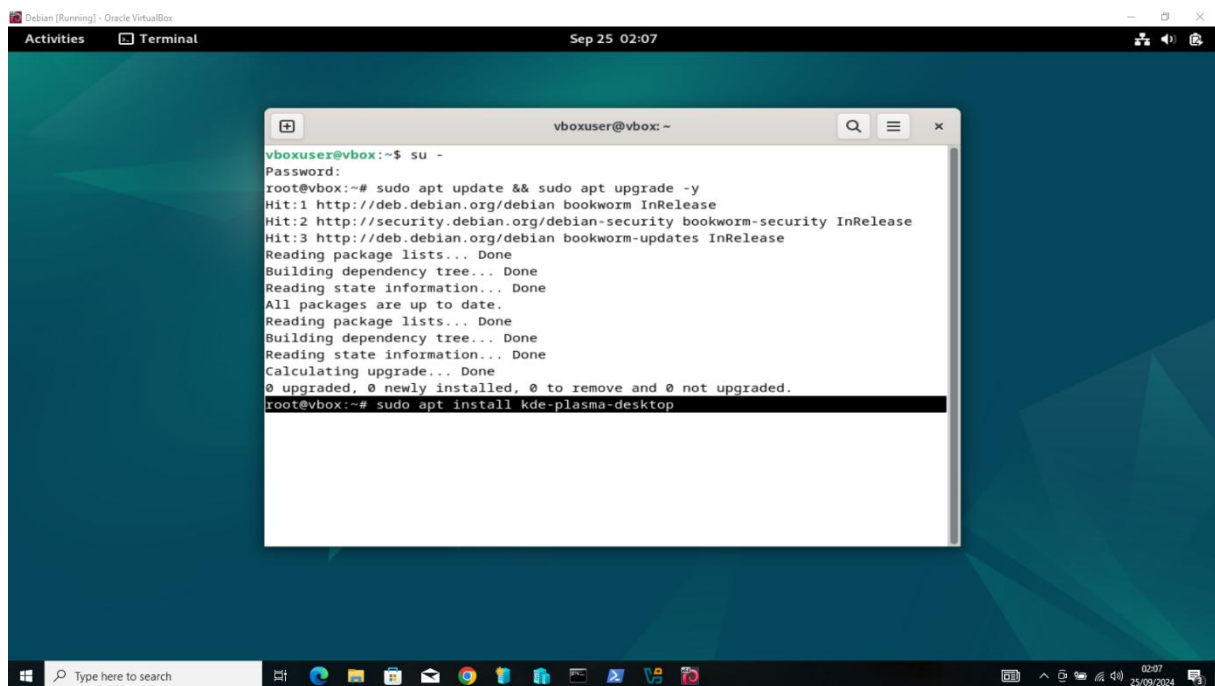
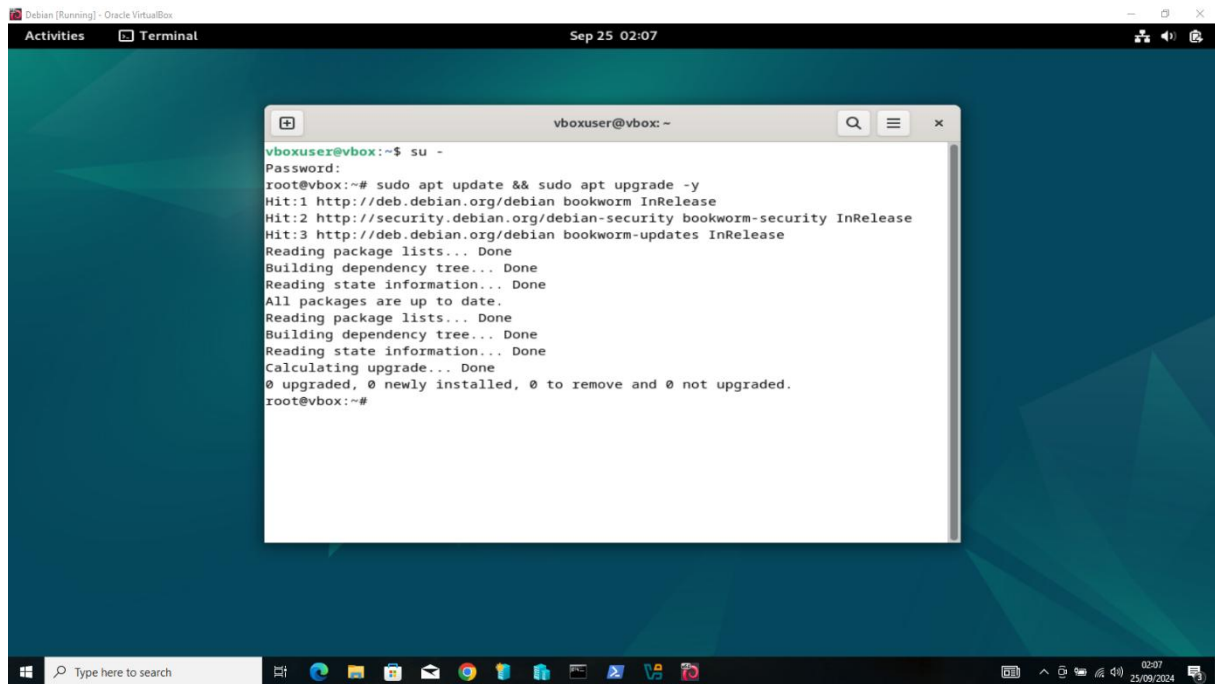
- **Sudo apt update & sudo apt upgrade** – check and secure all existing packages and repositories and update them.
- **-y** – This command represents confirmation or default YES (yes)
- **sudo apt install kde-plasma-desktop** – With this command we start the process of installing the graphical environment through the terminal.
- **sudo reboot** – This command allows the virtual machine to restart.

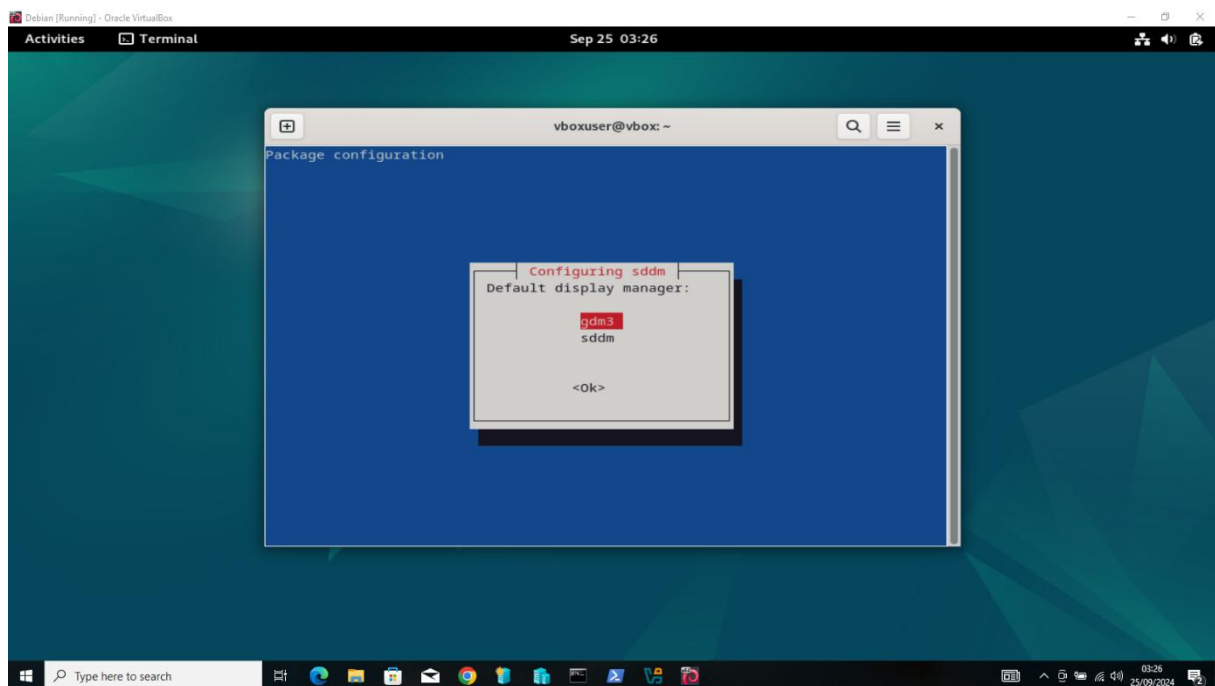
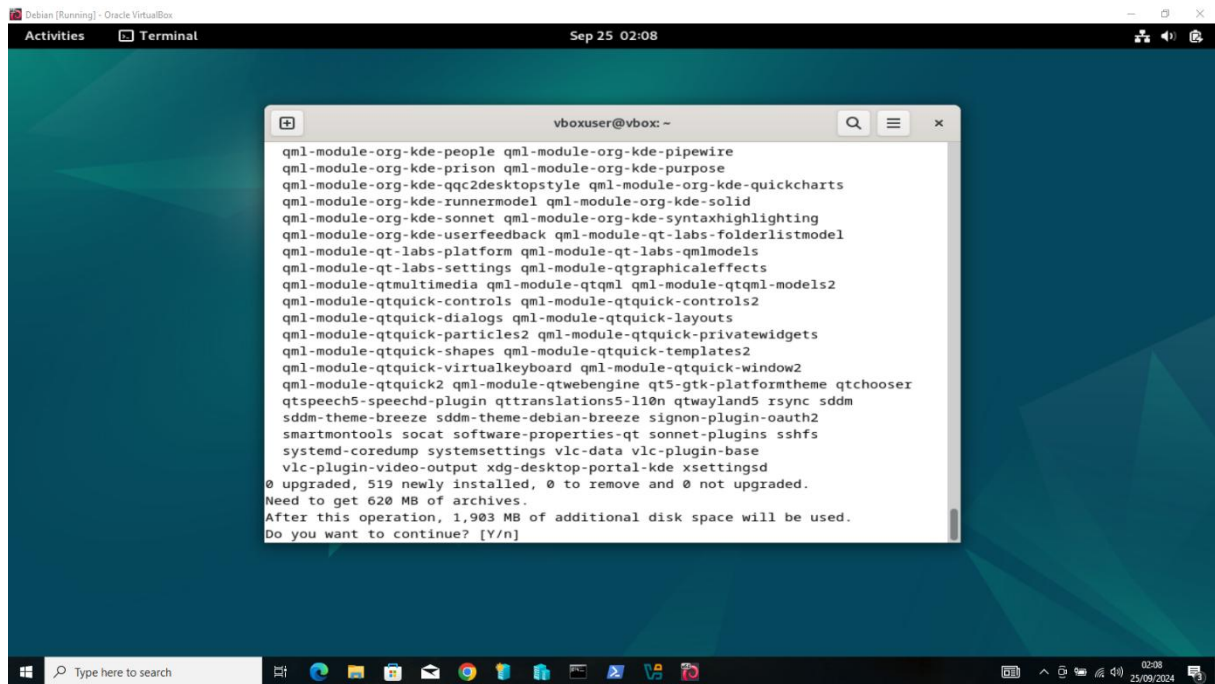
ADDING KDE ENVIRONMENTS

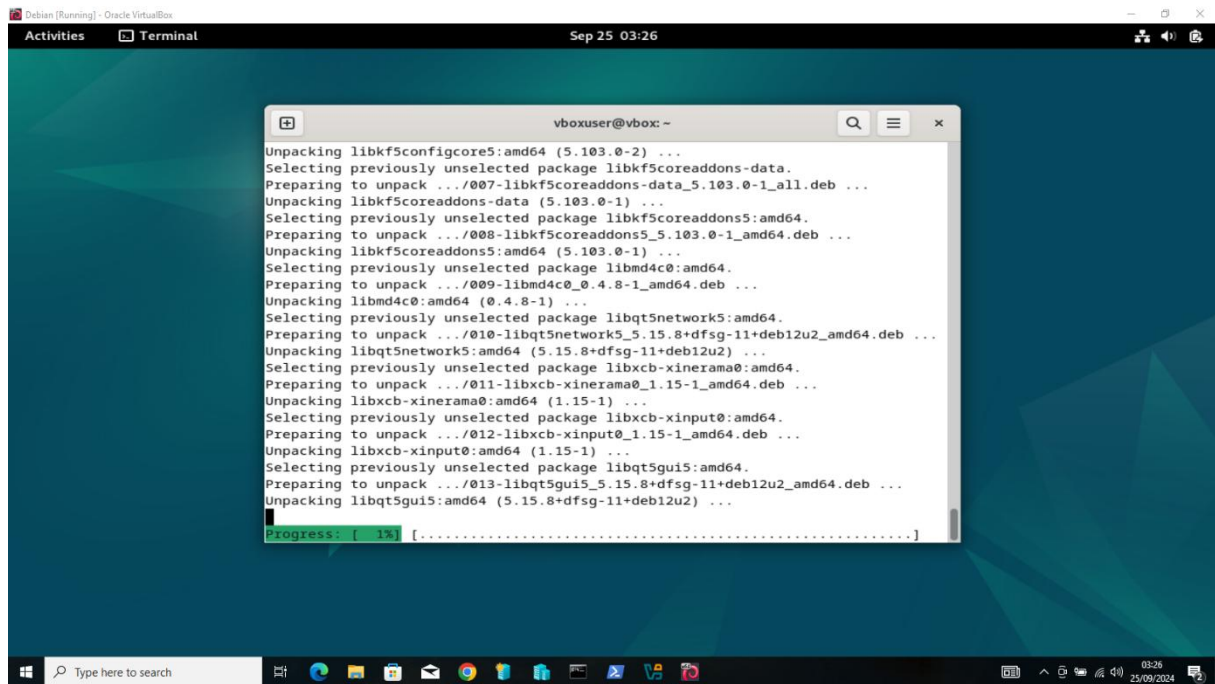
At the very beginning, the virtual machine is started and the terminal application is launched. The screenshots show a step-by-step process that shows the commands and process for starting the installation of the graphical environment.



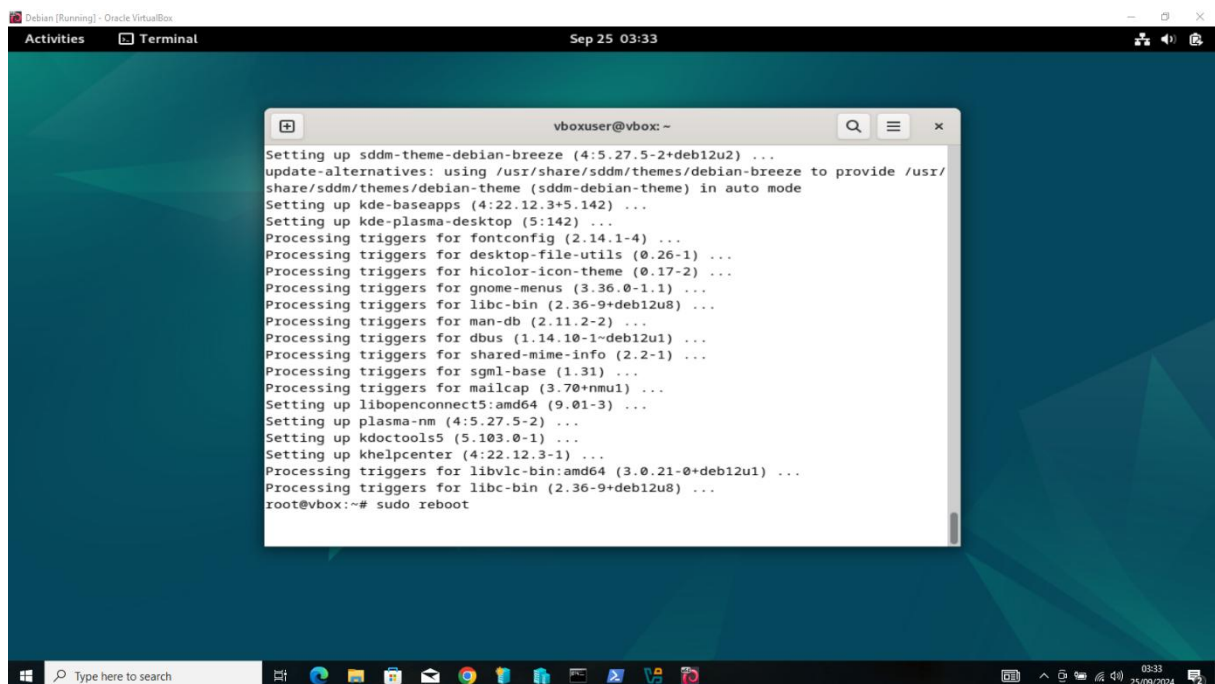








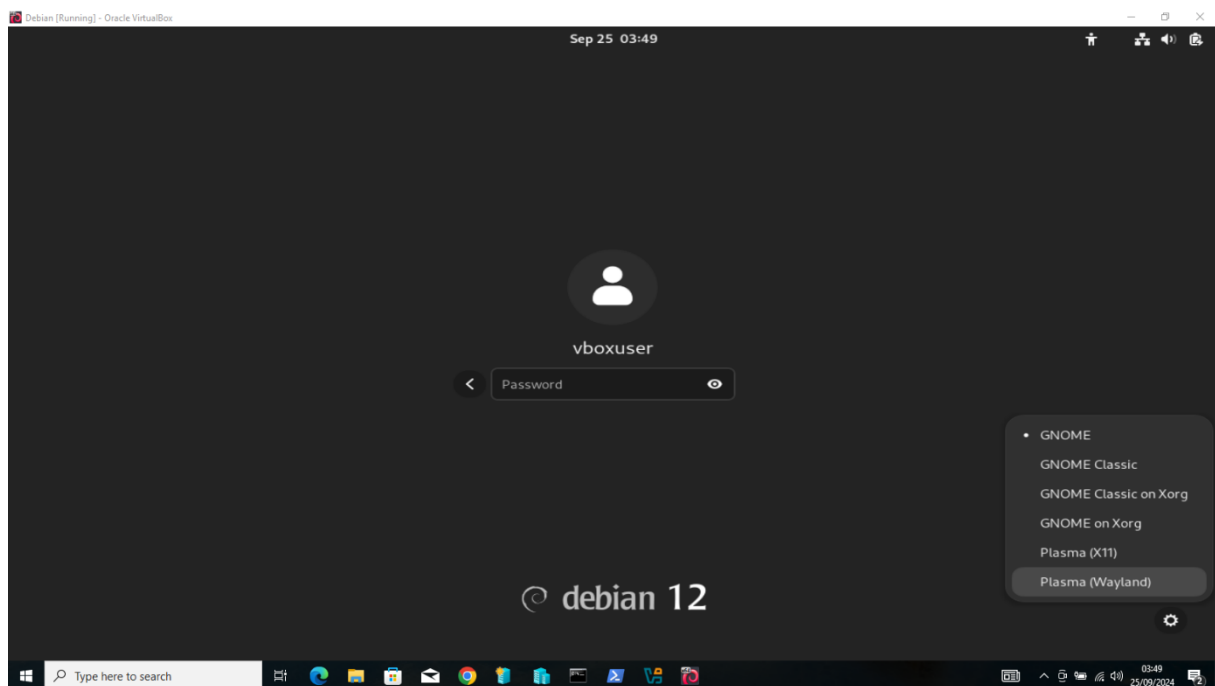
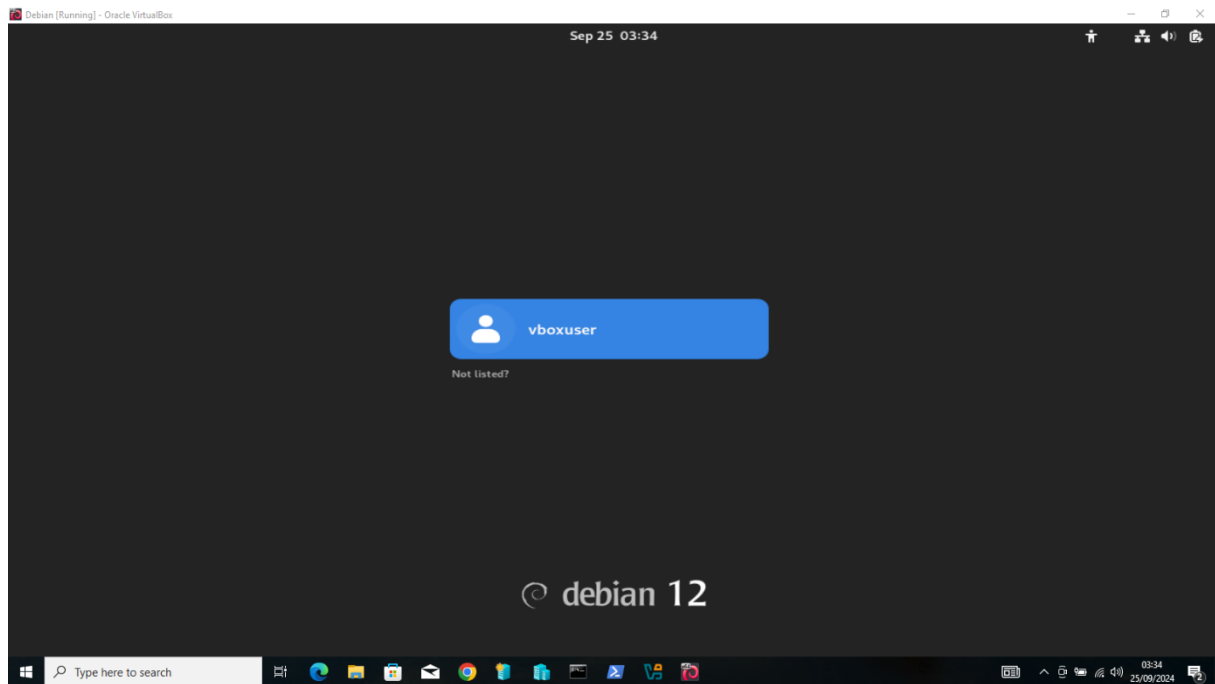
```
vboxuser@vbox: ~  
Unpacking libkf5configcore5:amd64 (5.103.0-2) ...  
Selecting previously unselected package libkf5coreaddons-data.  
Preparing to unpack .../007-libkf5coreaddons-data_5.103.0-1_all.deb ...  
Unpacking libkf5coreaddons-data (5.103.0-1) ...  
Selecting previously unselected package libkf5coreaddons5:amd64.  
Preparing to unpack .../008-libkf5coreaddons5_5.103.0-1_amd64.deb ...  
Unpacking libkf5coreaddons5:amd64 (5.103.0-1) ...  
Selecting previously unselected package libmd4c0:amd64.  
Preparing to unpack .../009-libmd4c0_0.4.8-1_amd64.deb ...  
Unpacking libmd4c0:amd64 (0.4.8-1) ...  
Selecting previously unselected package libqt5network5:amd64.  
Preparing to unpack .../010-libqt5network5_5.15.8+dfsg-11+deb12u2_amd64.deb ...  
Unpacking libqt5network5:amd64 (5.15.8+dfsg-11+deb12u2) ...  
Selecting previously unselected package libxcb-xinerama0:amd64.  
Preparing to unpack .../011-libxcb-xinerama0_1.15-1_amd64.deb ...  
Unpacking libxcb-xinerama0:amd64 (1.15-1) ...  
Selecting previously unselected package libxcb-xinput0:amd64.  
Preparing to unpack .../012-libxcb-xinput0_1.15-1_amd64.deb ...  
Unpacking libxcb-xinput0:amd64 (1.15-1) ...  
Selecting previously unselected package libqt5gui5:amd64.  
Preparing to unpack .../013-libqt5gui5_5.15.8+dfsg-11+deb12u2_amd64.deb ...  
Unpacking libqt5gui5:amd64 (5.15.8+dfsg-11+deb12u2) ...  
Progress: [ 13% ] [ ..... ]
```



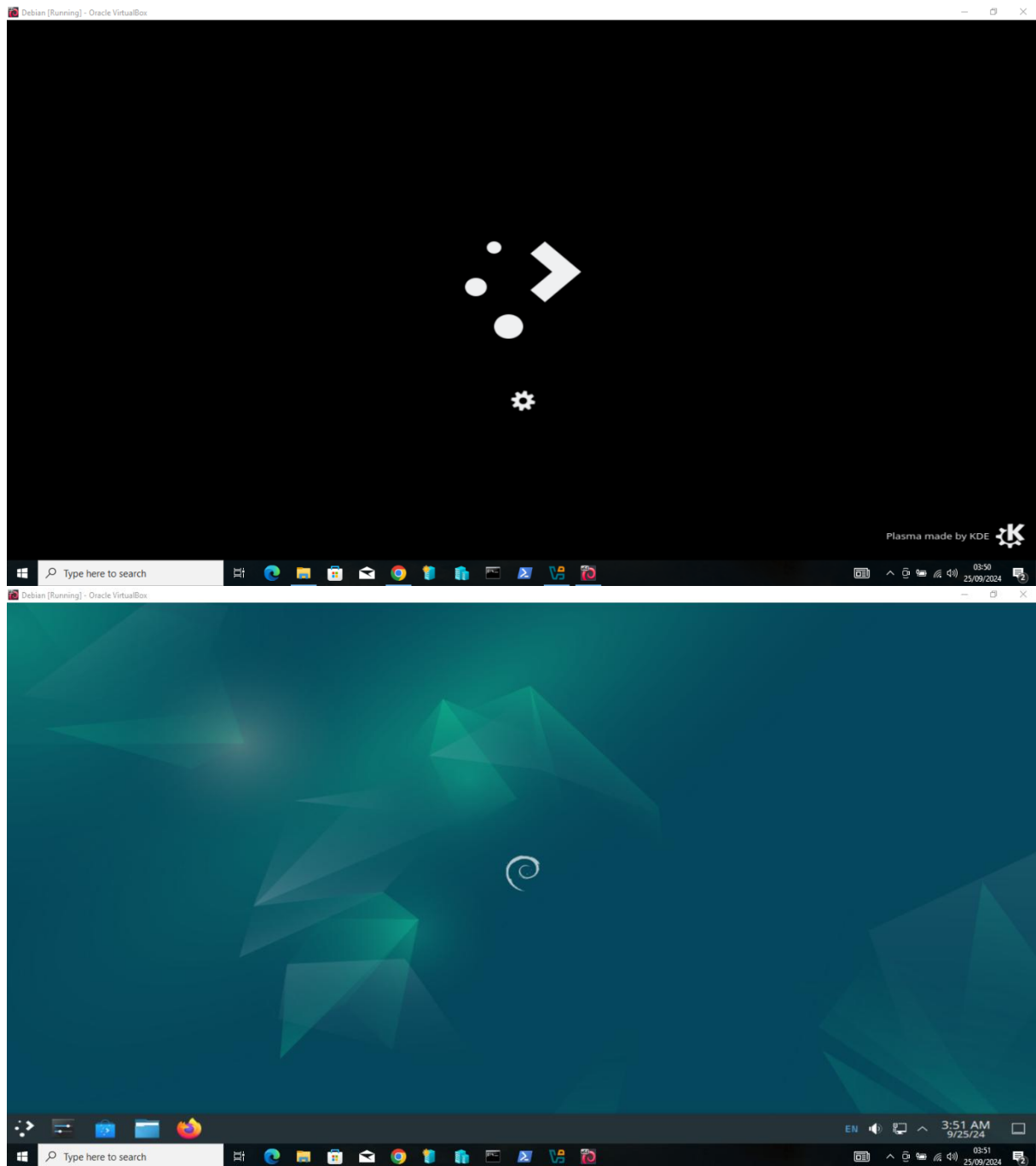
```
vboxuser@vbox: ~  
Setting up sddm-theme-debian-breeze (4:5.27.5-2+deb12u2) ...  
update-alternatives: using /usr/share/sddm/themes/debian-breeze to provide /usr/  
share/sddm/themes/debian-theme (sddm-debian-theme) in auto mode  
Setting up kde-baseapps (4:22.12.3+5.142) ...  
Setting up kde-plasma-desktop (5:142) ...  
Processing triggers for fontconfig (2.14.1-4) ...  
Processing triggers for desktop-file-utils (0.26-1) ...  
Processing triggers for hicolor-icon-theme (0.17-2) ...  
Processing triggers for gnome-menus (3.36.0-1.1) ...  
Processing triggers for libc-bin (2.36-9+deb12u8) ...  
Processing triggers for man-db (2.11.2-2) ...  
Processing triggers for dbus (1.14.10-1+deb12u1) ...  
Processing triggers for shared-mime-info (2.2-1) ...  
Processing triggers for sgml-base (1.31) ...  
Processing triggers for mailcap (3.70+nmul) ...  
Setting up libopenconnect5:amd64 (9.01-3) ...  
Setting up plasma-nm (4:5.27.5-2) ...  
Setting up kdoctools5 (5.103.0-1) ...  
Setting up khelpcenter (4:22.12.3-1) ...  
Processing triggers for libvlc-bin:amd64 (3.0.21-0+deb12u1) ...  
Processing triggers for libcb-bin (2.36-9+deb12u8) ...  
root@vbox:~# sudo reboot
```

VIEW OF THE LINUX KDE ENVIRONMENT

After a successful process of installing the graphical environment and restarting the system. A screen opens that shows the options for logging in to the user account, but when logging in, the GNOME environment will start again, in order to switch to KDE Plasma, you need to open the icon that looks like the Settings option, which is located in the bottom right corner of the home screen and select which environment you want to use.



KDE Plasma is running, and the following screenshots show what the graphical environment looks like.



The task has been successfully completed, the step by step action shows the entire procedure that was provided for this task.