

Assignment

Installing the "mc" and "gimp" packages

Task:

"Description: You have received a desktop computer with the Debian 12 Linux operating system installed with the GNOME desktop environment installed on it. You need to, using the appropriate package manager, install the "mc" and "gimp" packages.

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."

Title: Linux Operating System

Module: Program Installation

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CONTENT

INTRODUCTION.....	1
INSTALLATION OF MC I GRIMP PROGRAM.....	2

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.

For the purposes of this task, the virtual machine from the previous task was used, which is called "Module 5", called Linux System Installation.

The environment it follows is GNOME, and in this connection some of the applications that have been used are:

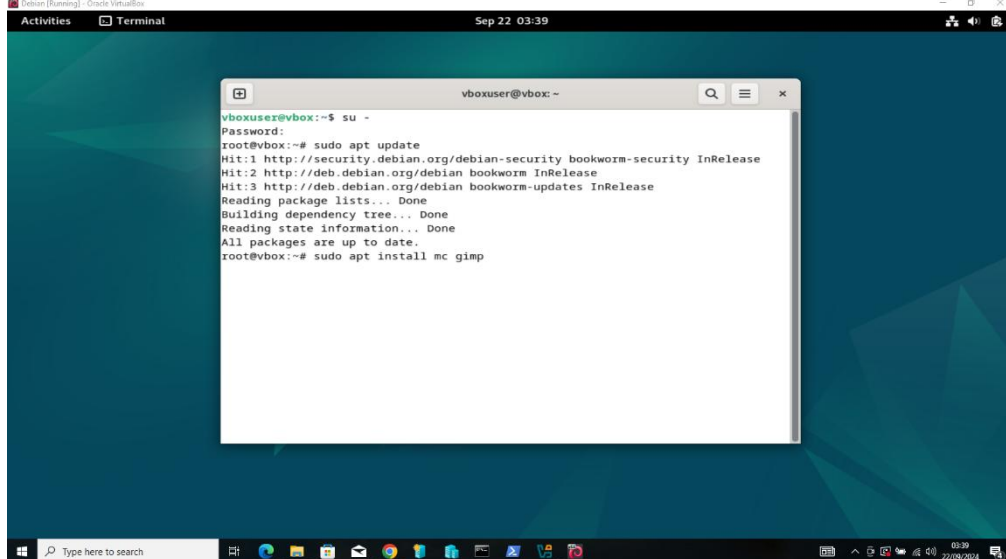
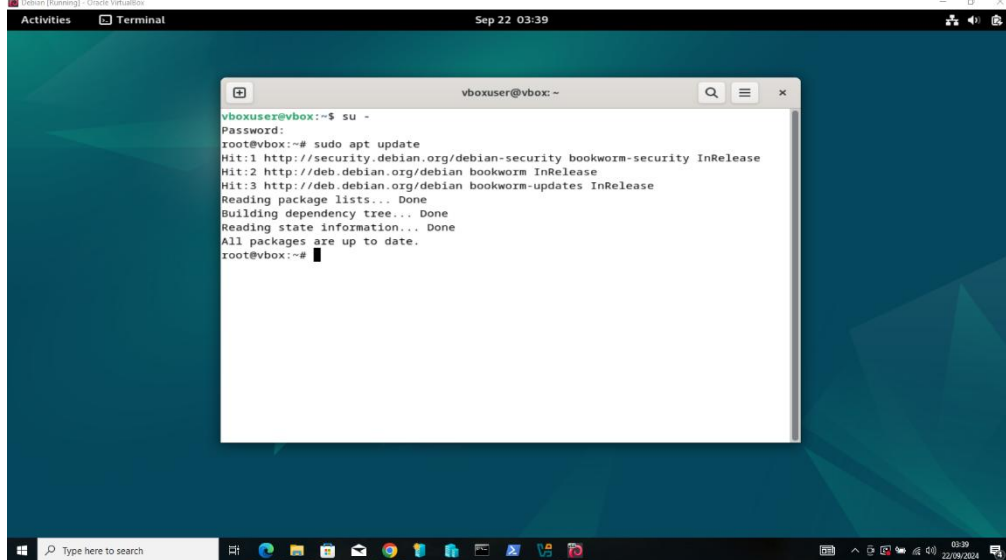
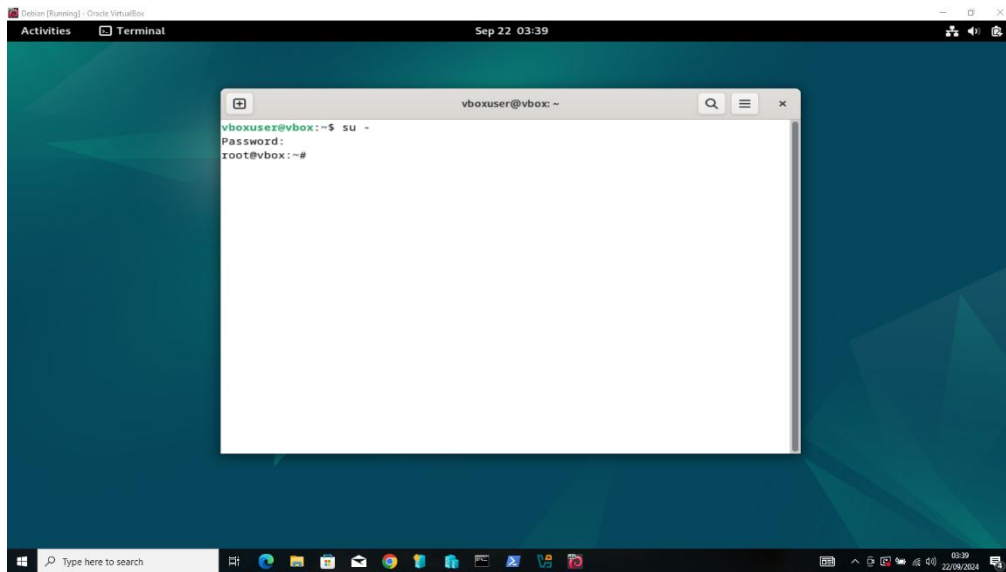
- **Terminal Linux**
- **Using the root account "su –"**

Some of the additional commands that have been used are:

- **Su** – access to the account with additional privileges
- **Sudo apt update + Y** (default as yes) – check the status for the update
- **sudo apt install mc gimp** – start the installation of selected programs
- **Mc** – Midnight Commander app selected
- **Gimp** – GNU Image Manipulation Program Selected Application

INSTALLATION OF MC I GRIMP PROGRAM

The installation process is primarily carried out by starting the Virtual Machine and launching the Terminal application, The following screenshots will show what the whole process looks like and what commands were used.

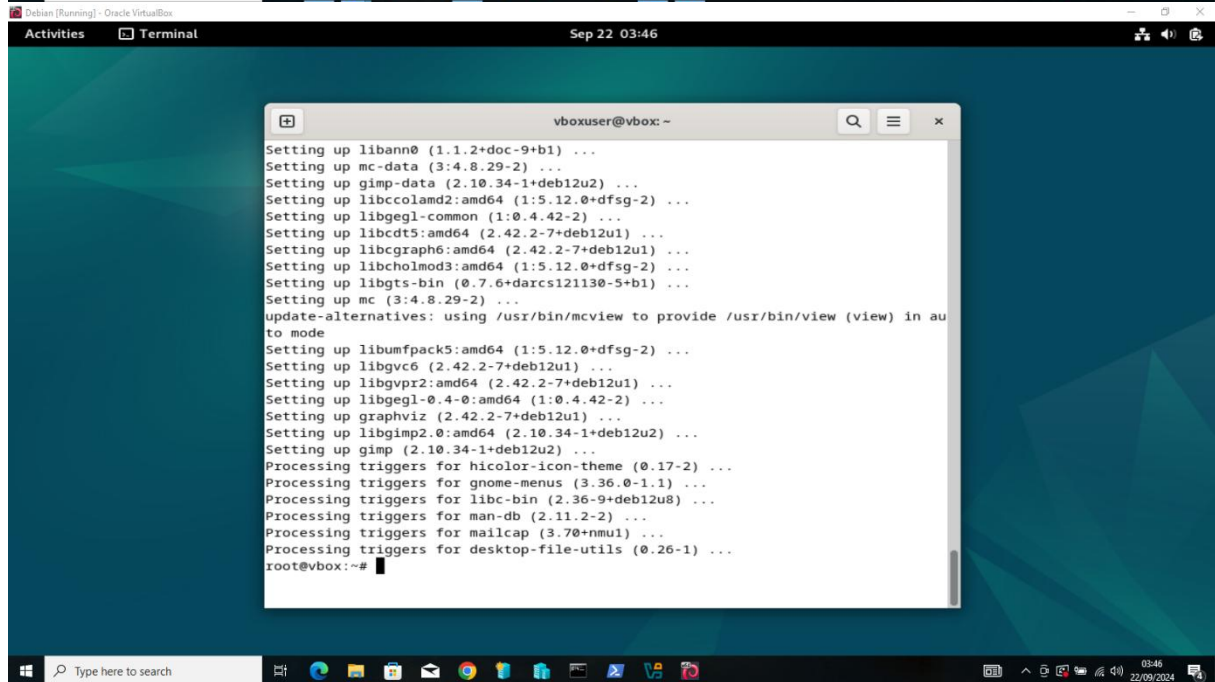
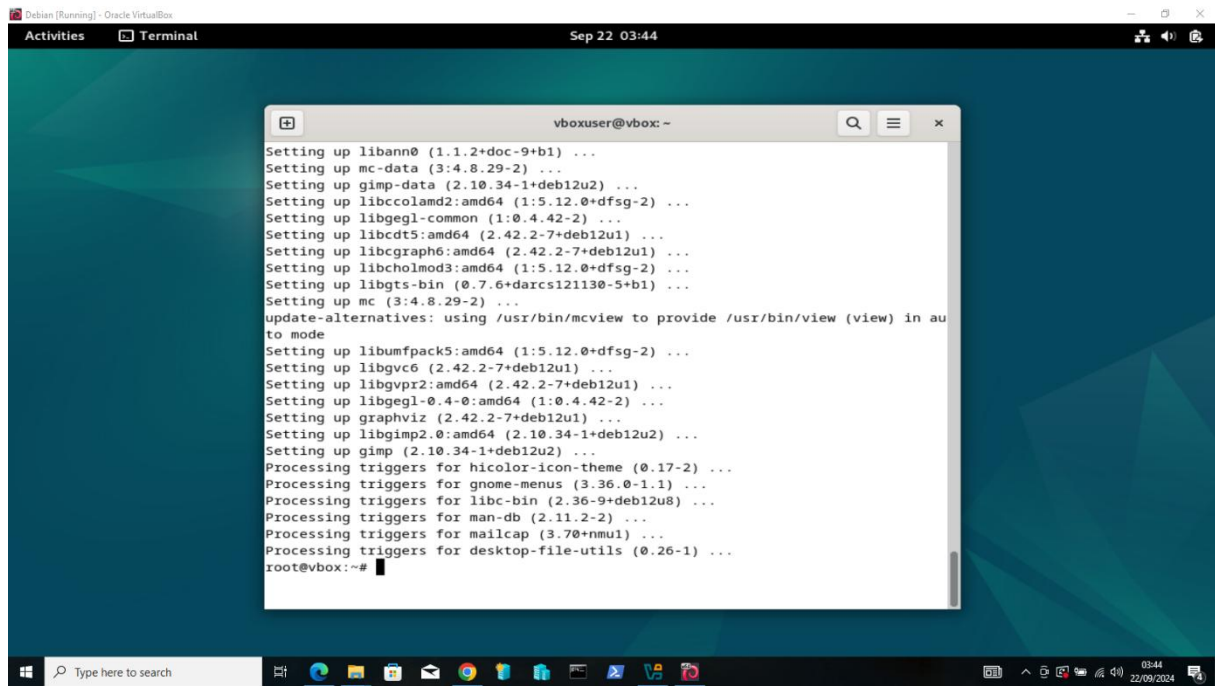


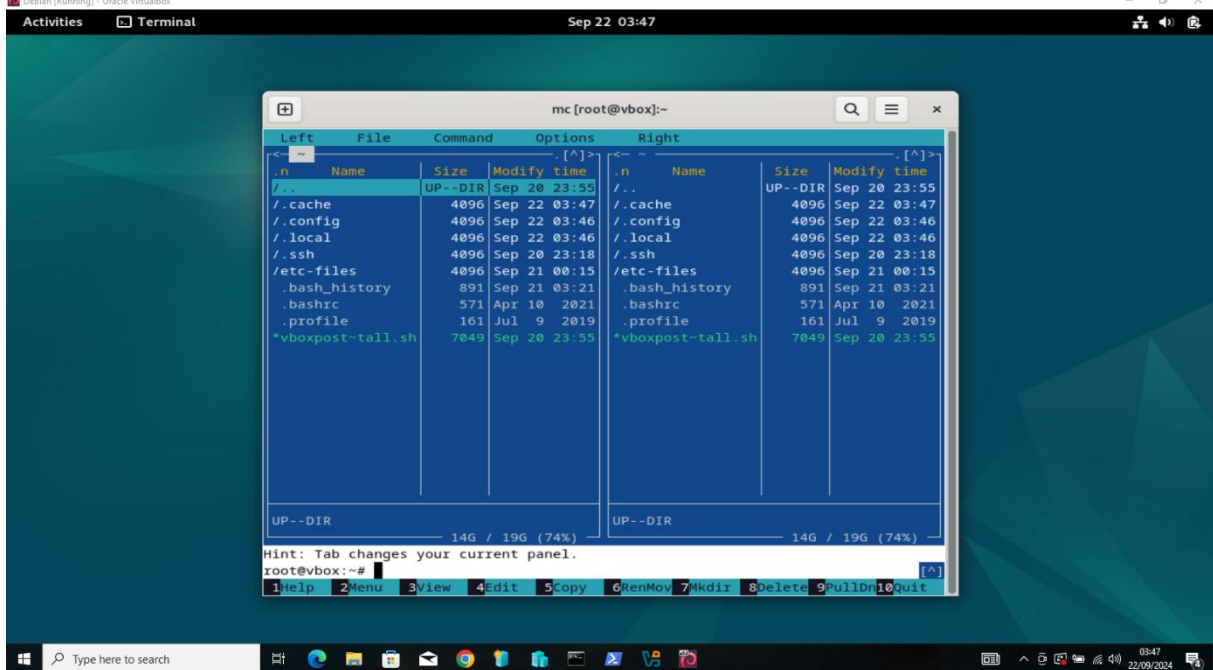
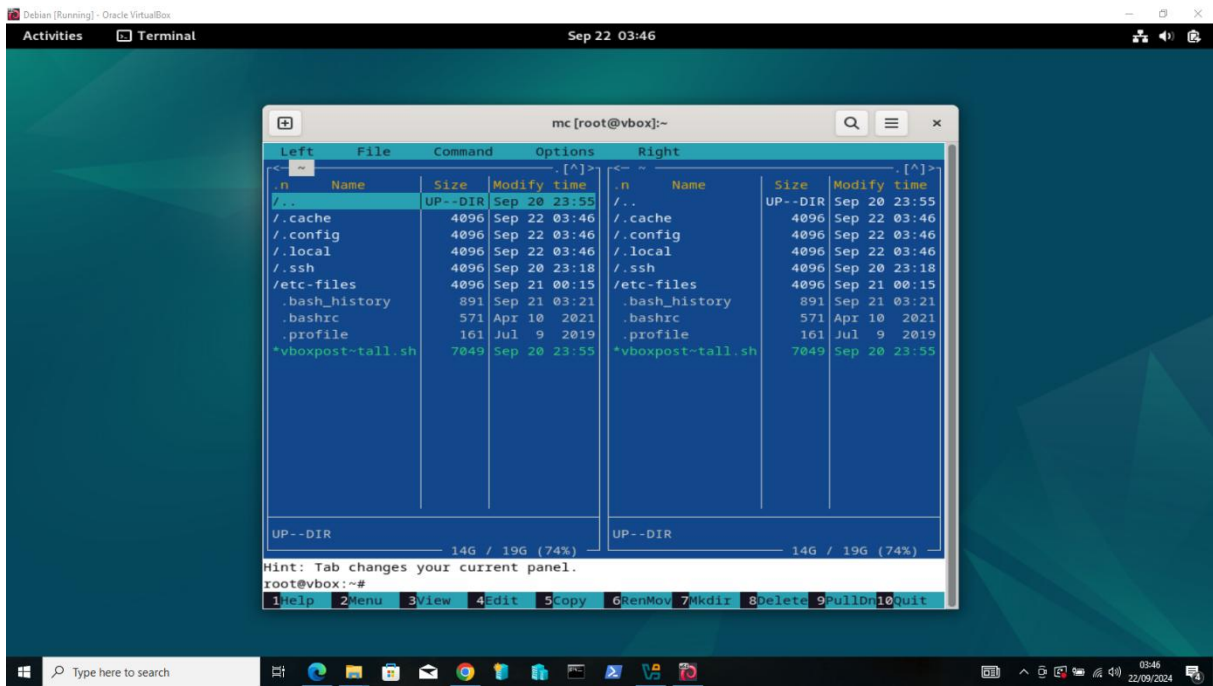
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Debian (Running) - Oracle VM VirtualBox
Activities Terminal Sep 22 03:40

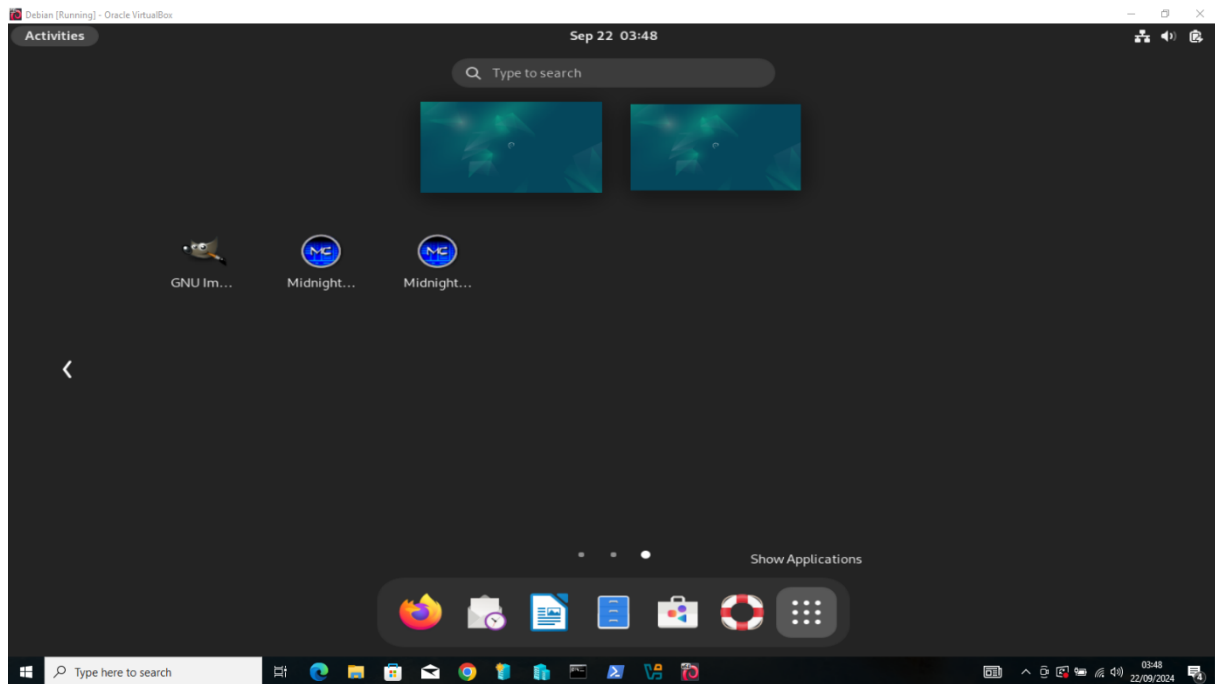
vboxuser@vbox: ~
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@vbox:~# sudo apt install mc gimp
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  gimp-data graphviz libamd2 libann0 libbabl-0.1-0 libcamd2 libccolamd2
  libcdt5 libcgraph6 libcholmod3 libgegl-0.4-0 libgegl-common libgimp2.0
  libgts-0.7-5 libgts-bin libgvc6 libgvpr2 liblab-gamut1 libmetis5 libmng1
  libmypaint-1.5-1 libmypaint-common libpathplan4 libumfpack5 libwmf-0.2-7
  mc-data
Suggested packages:
  gimp-help-en | gimp-help gimp-data-extras graphviz-doc libwmf-0.2-7-gtk arj
  catdvi | texlive-binaries dbview djvulibre-bin epub-utils genisoimage gv
  imagemagick libaspell-dev odt2txt python python-boto python-tzunar wintools
  zip
The following NEW packages will be installed:
  gimp gimp-data graphviz libamd2 libann0 libbabl-0.1-0 libcamd2 libccolamd2
  libcdt5 libcgraph6 libcholmod3 libgegl-0.4-0 libgegl-common libgimp2.0
  libgts-0.7-5 libgts-bin libgvc6 libgvpr2 liblab-gamut1 libmetis5 libmng1
  libmypaint-1.5-1 libmypaint-common libpathplan4 libumfpack5 libwmf-0.2-7 mc
  mc-data
0 upgraded, 28 newly installed, 0 to remove and 0 not upgraded.
Need to get 28.2 MB of archives.
After this operation, 152 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
Debian (Running) - Oracle VM VirtualBox
Activities Terminal Sep 22 03:40

vboxuser@vbox: ~
root@vbox:~# sudo apt install mc gimp
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  gimp-data graphviz libamd2 libann0 libbabl-0.1-0 libcamd2 libccolamd2
  libcdt5 libcgraph6 libcholmod3 libgegl-0.4-0 libgegl-common libgimp2.0
  libgts-0.7-5 libgts-bin libgvc6 libgvpr2 liblab-gamut1 libmetis5 libmng1
  libmypaint-1.5-1 libmypaint-common libpathplan4 libumfpack5 libwmf-0.2-7
  mc-data
Suggested packages:
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  imagemagick libaspell-dev odt2txt python python-boto python-tzunar wintools
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  libgts-0.7-5 libgts-bin libgvc6 libgvpr2 liblab-gamut1 libmetis5 libmng1
  libmypaint-1.5-1 libmypaint-common libpathplan4 libumfpack5 libwmf-0.2-7 mc
  mc-data
0 upgraded, 28 newly installed, 0 to remove and 0 not upgraded.
Need to get 28.2 MB of archives.
After this operation, 152 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://deb.debian.org/debian bookworm/main amd64 libbabl-0.1-0 amd64 1:0.1
.98-1+b1 [414 kB]
0% [1 libbabl-0.1-0 0 B/414 kB 0%]
```







Through the screenshots it is very simply presented how it is possible to install these programs through the terminal, the creation process is very fast. There is also the possibility of installation via a graphical interface, but for the purposes of this task, the process via the terminal has been selected.

The commands are presented in the introduction of this task. This task provides the ability and process of installing two packages, mc and gimp on a Debian 12 Linux system using the apt package manager. Through the technical steps, from updating the package list to the installation itself, it is shown how to efficiently use the terminal and manage packages on the GNU Linux system. The installation was successfully confirmed by running both programs.