Day 1 Setting up and Exploring Linux

# Obtaining Linux on PC – Install Ubuntu using VirtualBox.

Download Ubuntu ISO AMD64 from the website.

<https://ubuntu.com/download/desktop>

A screenshot of a computer

AI-generated content may be incorrect.

Download VMware Workstation from the website.

[VMware Workstation Pro Download - 17.6.3 | TechSpot](https://www.techspot.com/downloads/189-vmware-workstation-for-windows.html#google_vignette)

A screenshot of a computer

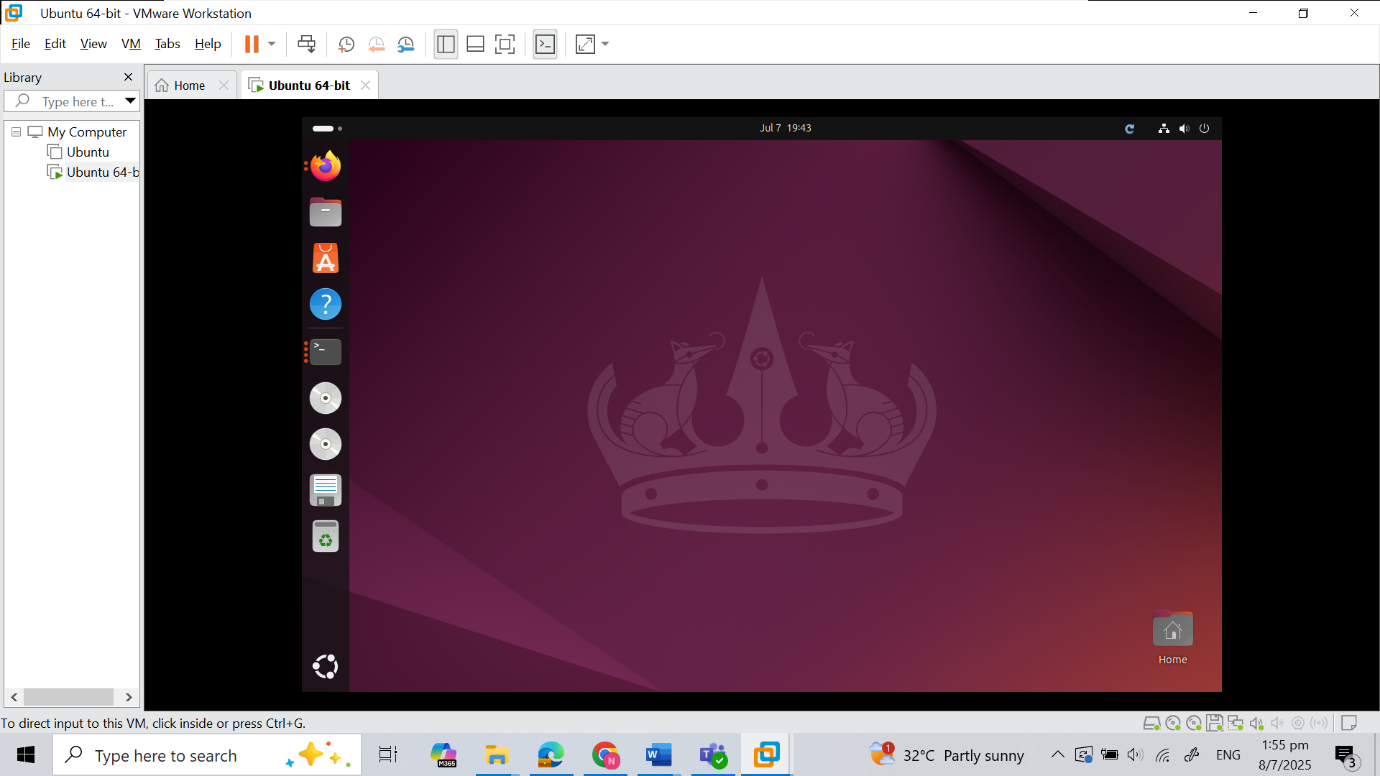
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After that mount ISO and install Ubuntu.

A screenshot of a computer

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Launch the VM , and after start up installation will go to this interface



# Familiarity with Ubuntu Linux

Next open terminal and test the command

A computer screen shot of a program

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Do adduser command and familiar with linux command

A screenshot of a computer

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Ping test

A screenshot of a computer

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Add user jaychou

A computer screen shot of a program code

AI-generated content may be incorrect.

Check new user with cat command

A computer screen shot of text

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Then SSH to the log in jaychou

A screenshot of a computer program

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Download ebooks using wget command

A screenshot of a computer program

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Move into the books directory create earlier and created a ta archive

A screenshot of a computer program

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Then decompressed using bunzip command and extracted with command tar -xvf

A screenshot of a computer program

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# Linux Permissions

Create 3 user – alice, bob, and Mallory and check using command cat

A screen shot of a computer screen

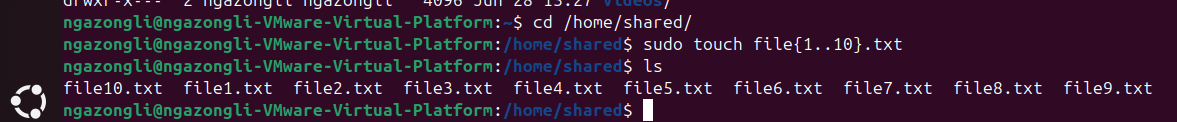
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Create new group name sharedgroup, and add alice and bob to the group

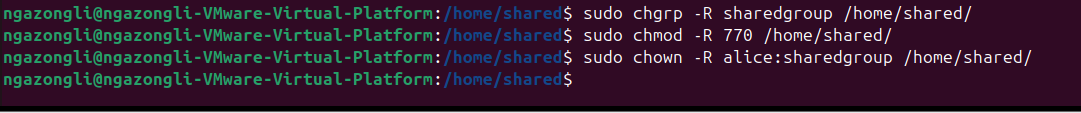
A screenshot of a computer screen

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Then created 10 files



Assigned the group to the folder and its content, used chmod to set permission to user alice



Alice is able to access and write to the file

A computer screen shot of a program

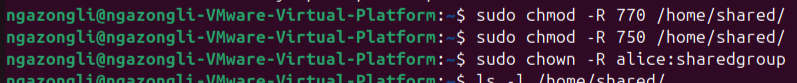
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Bob is able to write to the file too as I set chmod 770

A computer screen shot of a program

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After chmod to 750



Bob only can read and execute file now

A computer screen shot of text

AI-generated content may be incorrect.

Mallory couldn’t access the folder at all

A screenshot of a computer

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# Searching filesystems

Use the previous tar.bz2 file

A screenshot of a computer

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Bunzip2 to extract the archive

A screen shot of a computer program

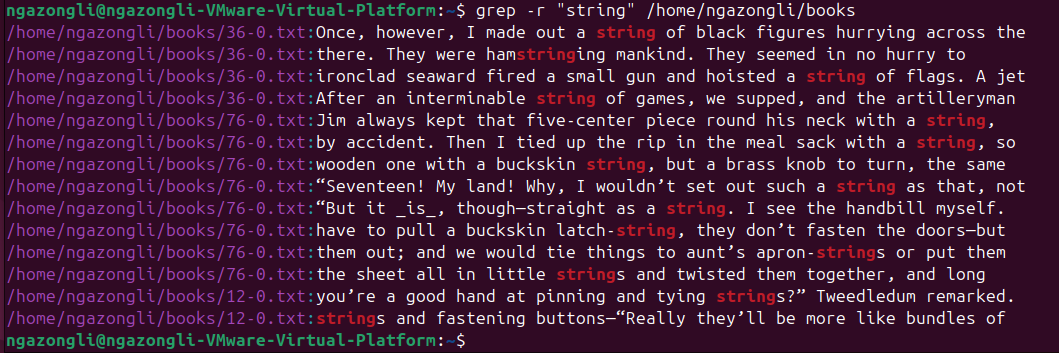
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Find command to find txt file inside folder

A computer screen with text

AI-generated content may be incorrect.

Grep -r command to find keywords in the folder



Grep -r -c to find context in the text file

A screenshot of a computer screen

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Command to find the largest files in the filesystem

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Investigating the frequency of element in a file

A computer screen with white text

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