Linux Introduction Activity Sheet: March 2022

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Version: 0.4

Linux Virtual Machine (VM) setup and using			
Step	Activity	Remarks	
1	Install virtual box: download from:	 As on date, VirtualBox 6.1 	
	https://www.virtualbox.org/		
2	Download Linux lite VirtualBox (VDI) VM from: https://www.osboxes.org/linux-lite/ Linux Lite 5.8 Click VirtualBox Download VirtualBox (VDI) 64bit	 For 64 bit use: Linux Lite 5.8 If not 64 bit, for 32 bit use: Linux Lite 3.8 You need 4GB or more RAM on your computer to run this Linux VM smoothly You need 10GB or more of free hard disk space 	
3	Install 7zip software from: https://www.7-zip.org/	Zip/Unzip software	
4	Setup VDI file using virtual box Create New VM and use above VDI file and virtual hard disk during setup	• https://youtu.be/VDh9Re_s6c8	
5	Username: osboxes Password: osboxes.org	To login into Linux system	
6	Install guest edition: Devices -> Inset Guest Editions CD Image Do following in terminal:	 Optional, but very Recommended and useful, for example to copy text from windows to Linux and vice versa. Change VBox_GAs_6.x.xx to appropriate name on your (Linux) system. For our case it was: VBox_GAs_6.1.32 	
7	Look around in Linux (Guest) OS using mouse		
8	Open shell/Terminal: Menu -> System -> Terminal Emulator	 Terminal is used to give commands to Operating System You can increase/decrease terminal font using: ctrl + / ctrl - 	
9	Practice commands in shell/terminal: • ls • cd ~ • cd Documents • mkdir c_progs • pwd • free -h • date • cal	 ~ is your home directory is parent directory HINT: type half command and use <tab> key to get autocompletions for e.g: cd Dow<tab></tab></tab> 	

	• cal 2021	
	• whoami	
	• cd	
	• df -h	
	• man df	
	Google for: basic Linux commands and try those.	
10	Install gedit text editor:	Run if you get: Command 'gedit'
	• sudo apt update	not found
	• sudo apt install gedit	Require Internet connection
11	To open terminal, click:	·
	Menu -> System -> Terminal Emulator	
12	To change time zone, on terminal type:	Set time zone: Asia/Kolkata
	time-admin	
	Unlock -> enter system password	
	Click Time zone and change	
13	Type first hello world program using gedit, on	
	terminal type:	
	• gedit hello.c	
14	Use gcc to compile and run your program:	 Make some syntax errors and
	• gcc hello.c	observer gcc command result
	• ./a.out	 Correct syntax errors and re try
		gcc
15	Type on Terminal:	Shutdown your Linux (virtual)
	• poweroff	machine.