Template Week 5 – Operating Systems

Student number: 575798

Assignment 5.1: Unix-like

a) Find out what the difference is between UNIX and Unix-like operating systems?

Unix is original and mainly used for commercial purposes. Unix is also certified by the Single Unix Specification. However, Unix like operating systems are usually open source and are not certified.

b) Study the image above named UNIX timeline. Find out who Ken Thompson, Dennis Ritchie, Bill Joy, Richard Stallman, and Linus Torvalds are and what they have contributed to the development of UNIX or Unix-like systems and to IT in general. **TIP!** English-language sources often contain more detailed information about these individuals.

Ken Thompson is one of the creators of UNIX. He had developed the first version of the UNIX operating system. He also managed to create the B programming language along with someone else which had later influenced the language C. He helped to make small programs which would all work together.

Dennis Ritchie is mainly known as the creator of C programming language. C was used to rewrite UNIX to make it portable across different types of hardware platforms. He had a huge influence on operating systems since most of them are written in C.

Bill Joy created the vi-text editor and contributed to the TCP/IP networking stack. He also co-founded Sun Microsystems which developed another major UNIX system. His work influenced networking and modern UNIX systems.

Richard Stallman is the founder of the free software movement and the GNU project. He wanted to create a free version of UNIX. He later developed tools like the GNU compiler, GNU Emacs and the GNU.

c) What is the philosophy of the GNU movement?

The philosophy of the GNU movement is that software should be free therefore the users have the freedom to have control over it.

d) Does Ubuntu as a Linux operating system conform to the philosophy of the GNU movement? Please explain your answer.

Ubuntu does conform to the philosophy of the GNU movement. Most of the software is free and open source. Ubuntu also encourages users to make contributions.

e) Find out what is the Windows Subsystem for Linux?

Windows Subsystem for Linux is a feature in Microsoft windows that allows users to run a Linux environment directly on Windows without needing a virtual machine or dual boot.

f) Find out, which operating system family belongs to Android, iOS and ChromeOS?

Android belongs to Linux; iOS belongs to the UNIX family and ChromeOS belongs to the Linux family.

Assignment 5.2: Supercomputers and gameconsoles

a) Research on this site what supercomputers are used for and write a short summary of it:
https://www.computerhistory.org/timeline/search/?q=Supercomputer

Supercomputers are used in astrophysics, weather and ocean modeling. A supercomputer was used to create Road runner and also created a design for the architecture in supercomputers. A supercomputer was used to help with the maintenance of the US nuclear arsenal. Japan used a super computer to create global climate models. This was to help it from earthquakes. Intel's touchstone delta supercomputer was used to prototype for projects like real time processing of satellite images or simulating molecular models in AIDS research. China used it to run massive solar energy simulations as well as complex molecular studies. America used it for nuclear arsenal, analyse financial data as well as render 3D medical images in real time. Therefore, supercomputers handle large sets of data and help us to understand very complex conceptions.

b) IBM is a company that has already built a number of supercomputers. One of them is IBM's Roadrunner. The CPU developed for this supercomputer was further developed at a later stage as the CPU for the PlayStation 3 console. Find out what a **PlayStation 3 cluster** is and what it was used for?

The PS3 cluster is almost like a mini supercomputer which was created by linking many PS3 consoles together which was mainly used for military purposes which required a lot of parallel computing power.

c) You can build a supercomputer by putting a few computers together in a cluster. Here's what Oracle did with a collection of Raspberry Pi's, for example:
https://blogs.oracle.com/developers/post/building-the-worlds-largest-raspberry-pi-cluster
What specific operating system is running on this cluster?

Oracle Linux was running on this cluster.

d) Does Oracle's Raspberry Pi supercomputer appear in the list of the 500 fastest supercomputers in the world? Make a logical decision for this, without going through the entire list.
https://www.top500.org/lists/top500/list/2023/06/

No since the computing power of a Raspberry Pi is very low level compared to huge companies who wouldve invested millions into supercomputers.

e) What CPU architecture is used for the PlayStation 5 and Xbox Series X?
What operating systems run on these consoles?
What conclusion can you draw from the answer to the previous question?

PlayStation 5 uses Custom AMD Zen 2 based CPU x86-64 and so does Xbox. For the operating system, PS 5 uses Orbis OS and for Xbox, Xbox OS is used. This shows that modern consoles are basically PCs with custom operating systems that use the same architecture as mainstream computers.

Assignment 5.3: Working with Windows

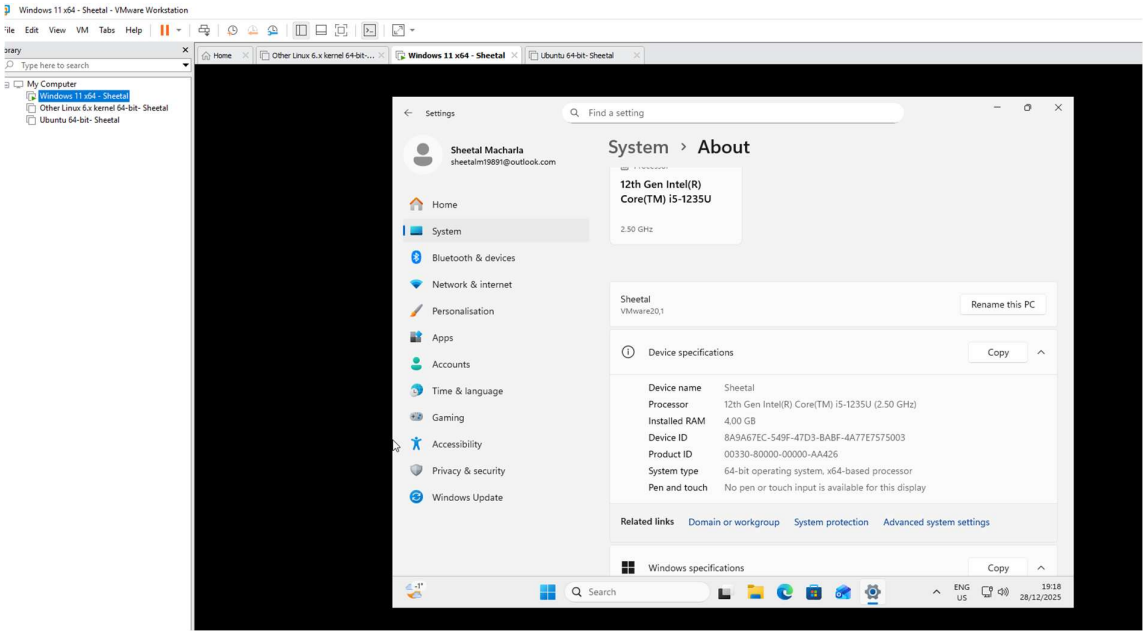
Take relevant screenshots of the assignments below

a) Practice for about 10 minutes with the ⊞ keyboard shortcuts combinations, skip the general shortcuts in this exercise. Take a look at which screens are opened.

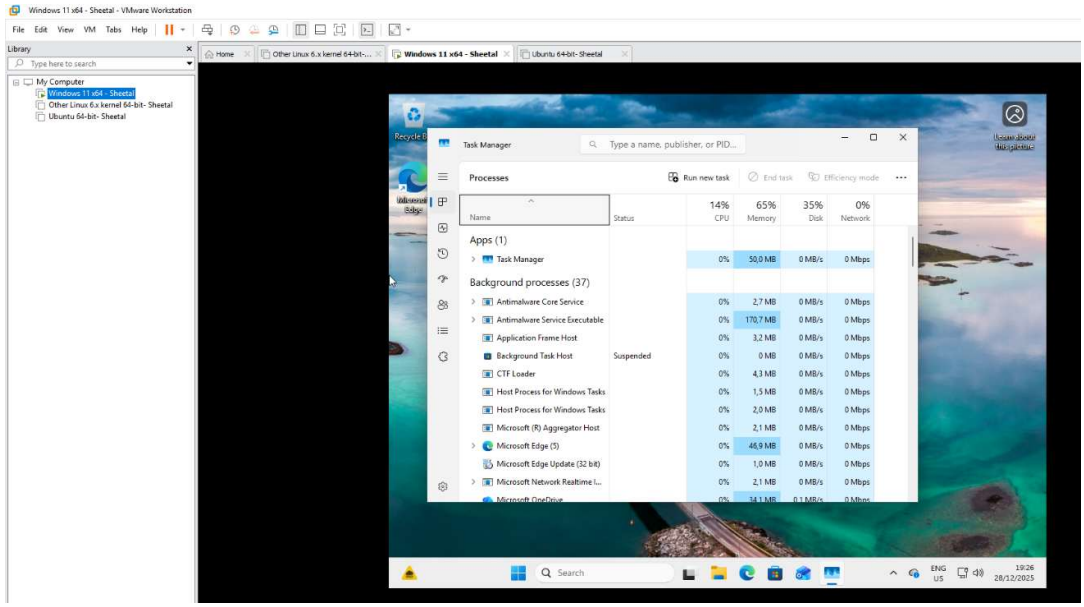
b) The file explorer can be opened with ⊞ + E, Which key combination could you also use?

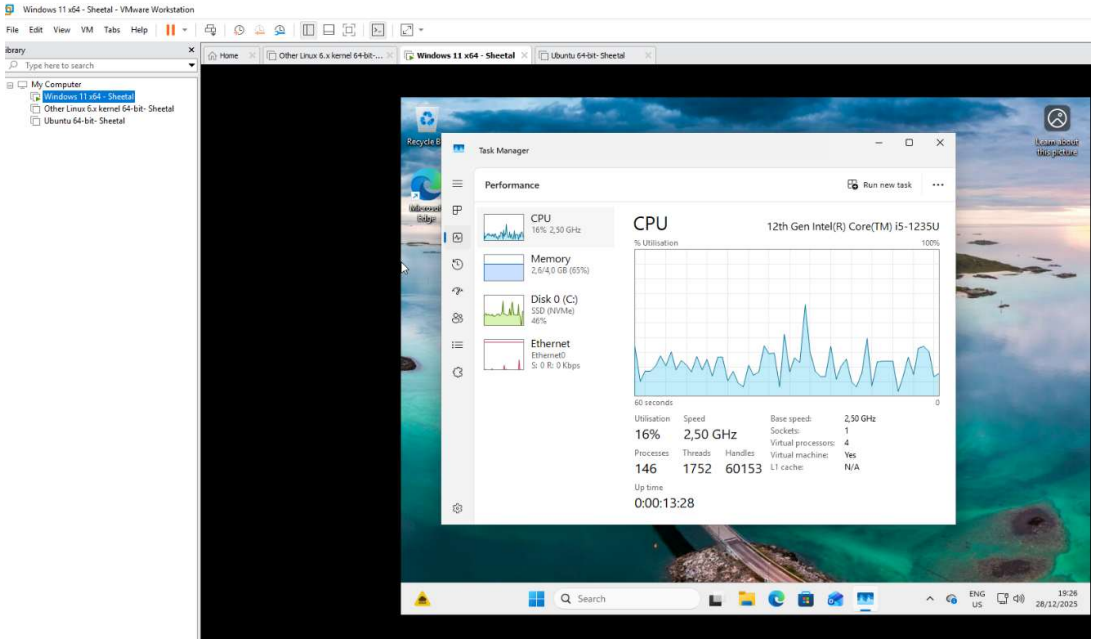
Windows + R and then type explorer.

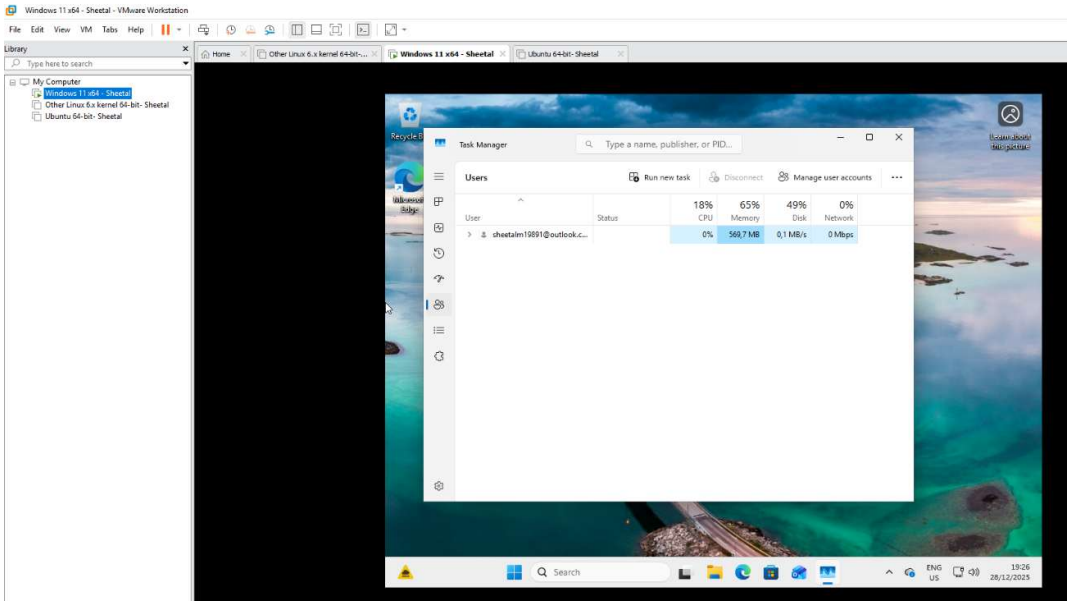
c) Open the system properties with a ⊞ key combination, take a screenshot of the open screen. Paste this screenshot into this template.



d) Open task manager with a key combination. Take screenshots of the tabs: processes (shows active processes), performance, and users. Place these three screenshots in this template.


Windows 11 x64 - Sheetal - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Windows 11 x64 - Sheetal
Other Linux 6.x kernel 64-bit- Sheetal
Ubuntu 64-bit- Sheetal
Home
Other Linux 6.x kernel 64-bit-...
Windows 11 x64 - Sheetal
Ubuntu 64-bit- Sheetal
Task Manager
Type a name, publisher, or PID...
Processes
Run new task
End task
Efficiency mode
Name
Status
14% CPU
65% Memory
35% Disk
0% Network
Apps (1)
Task Manager
0% 50,0 MB 0 MB/s 0 Mbps
Background processes (37)
Antimalware Core Service 0% 2,7 MB 0 MB/s 0 Mbps
Antimalware Service Executable 0% 170,7 MB 0 MB/s 0 Mbps
Application Frame Host 0% 3,2 MB 0 MB/s 0 Mbps
Background Task Host Suspended 0% 0 MB 0 MB/s 0 Mbps
CTF Loader 0% 4,3 MB 0 MB/s 0 Mbps
Host Process for Windows Tasks 0% 1,5 MB 0 MB/s 0 Mbps
Host Process for Windows Tasks 0% 2,0 MB 0 MB/s 0 Mbps
Microsoft (R) Aggregator Host 0% 2,1 MB 0 MB/s 0 Mbps
Microsoft Edge (5) 0% 46,9 MB 0 MB/s 0 Mbps
Microsoft Edge Update (32 bit) 0% 1,0 MB 0 MB/s 0 Mbps
Microsoft Network Realtime I... 0% 2,1 MB 0 MB/s 0 Mbps
Search
ENG US
19:26 28/12/2025


Windows 11 x64 - Sheetal - VMware Workstation
File Edit View VM Tabs Help
My Computer
Windows 11 x64 - Sheetal
Other Linux 6.x kernel 64-bit- Sheetal
Ubuntu 64-bit- Sheetal
Task Manager
Performance
Run new task
CPU
16% 2,50 GHz
Memory
2,6/4,0 GB (65%)
Disk 0 (C:)
SSD (NVMe)
46%
Ethernet
Ethernet0
S: 0 R: 0 Kbps
CPU
12th Gen Intel(R) Core(TM) i5-1235U
% Utilisation
100%
60 seconds
0
Utilisation
16%
Speed
2,50 GHz
Processes
146
Threads
1752
Handles
60153
Up time
0:00:13:28
Base speed: 2,50 GHz
Sockets: 1
Virtual processors: 4
Virtual machine: Yes
L1 cache: N/A
Search
ENG US
19:26 28/12/2025



e) If you're giving a PowerPoint presentation and you connect your laptop to a projector, Windows can use the projector as a second screen. For example, you may have Outlook open on your first screen that you don't show over the projector, while the PowerPoint presentation is displayed on the projector, or the second screen. Which key combination should you use for this?

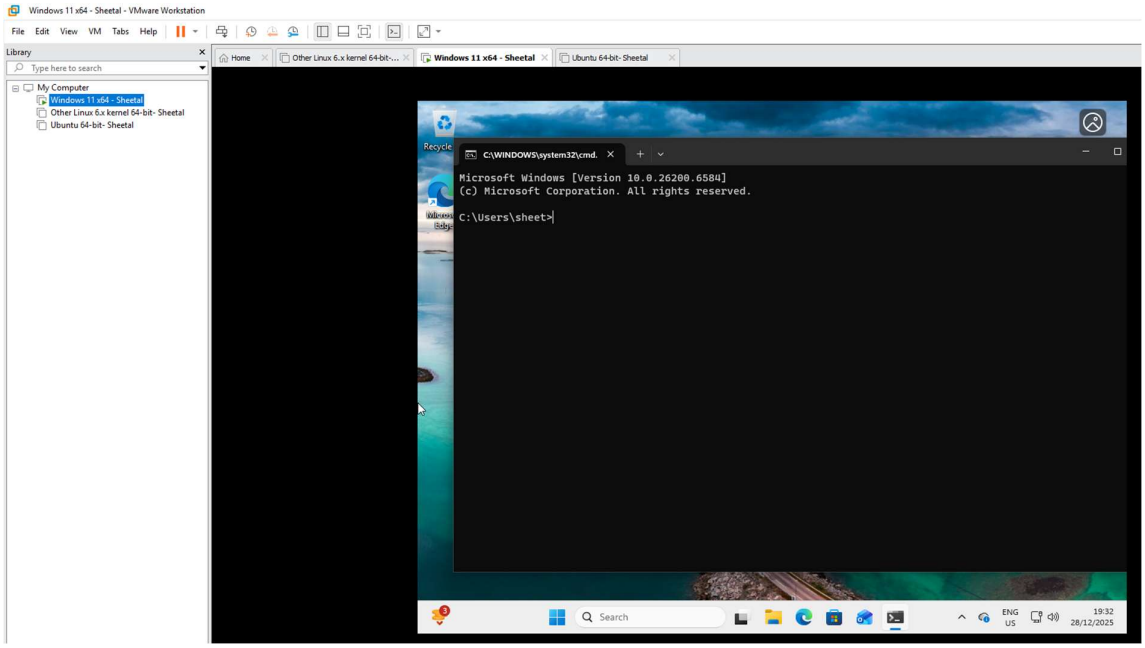
Windows + P

f) If you leave the classroom for a while and you leave your laptop behind, it is wise to lock the screen. Your Apps will continue to run in the background. So, for example, if you're waiting for a download that takes a while, lock the screen and get a cup of coffee. Which key combination do you use for this?

Windows + L

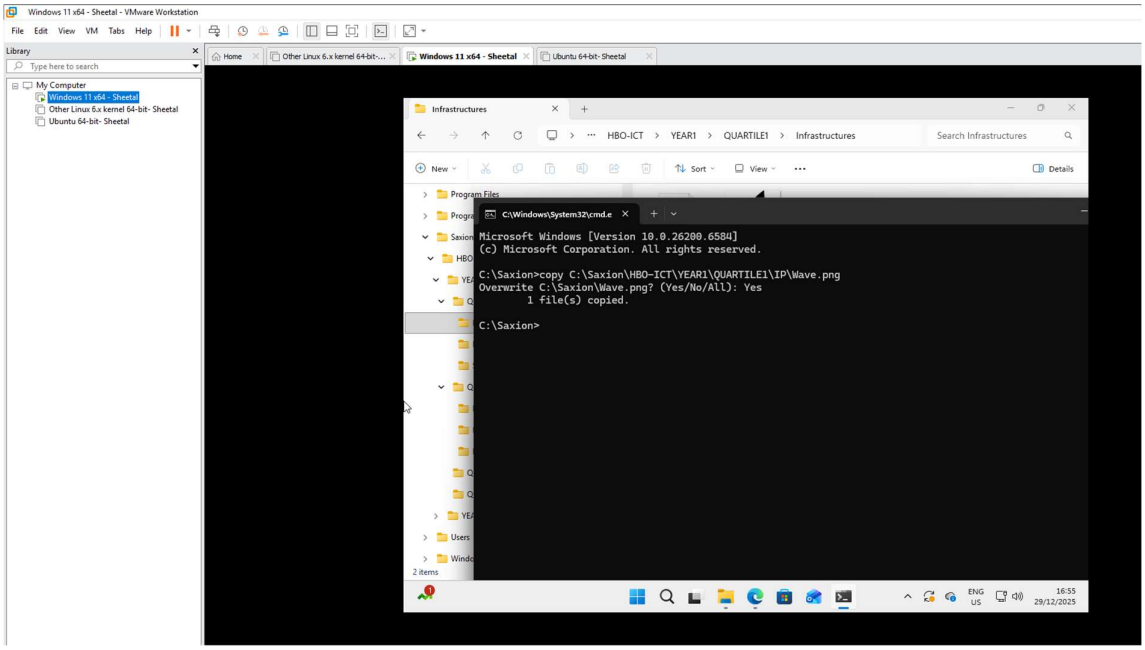
g) Open the Run screen with a key combination. On this screen, type CMD and press <enter>. Take a screenshot of this result and paste it into this template.

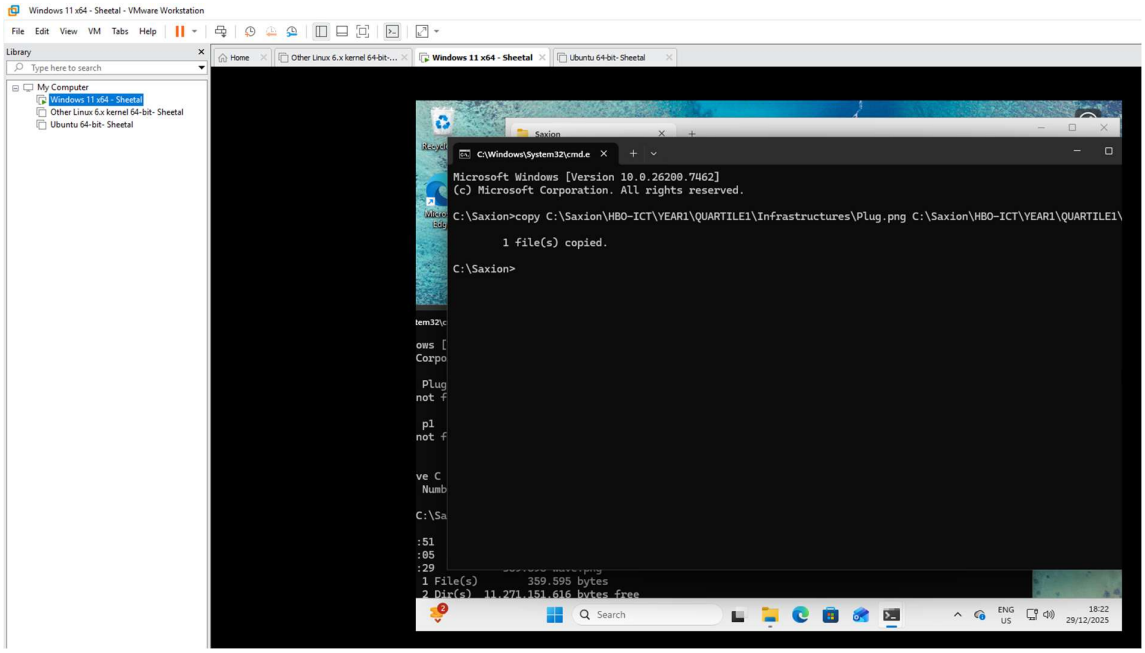
I used Windows + R and typed cmd

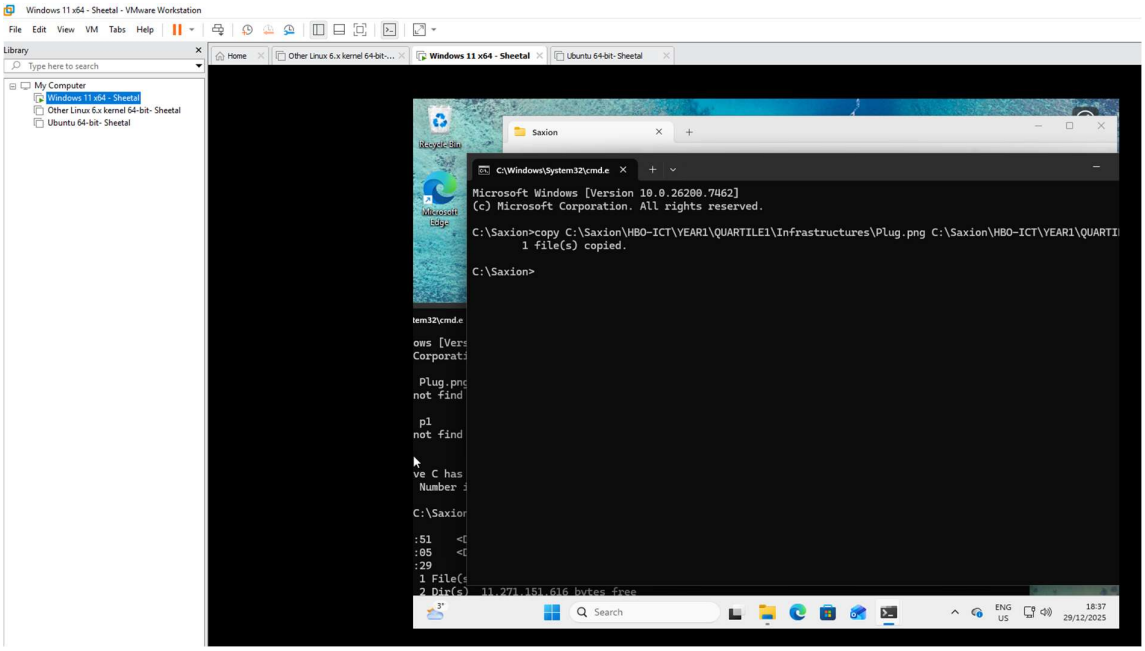


Working in the File Explorer

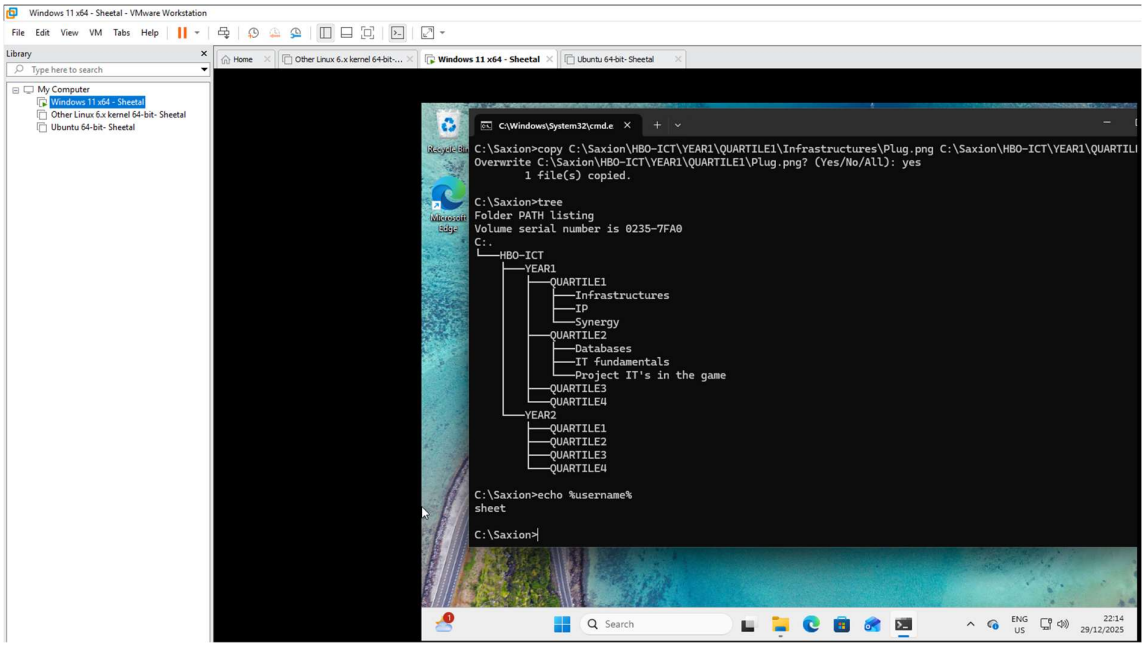
Relevant screenshots **copy** command:



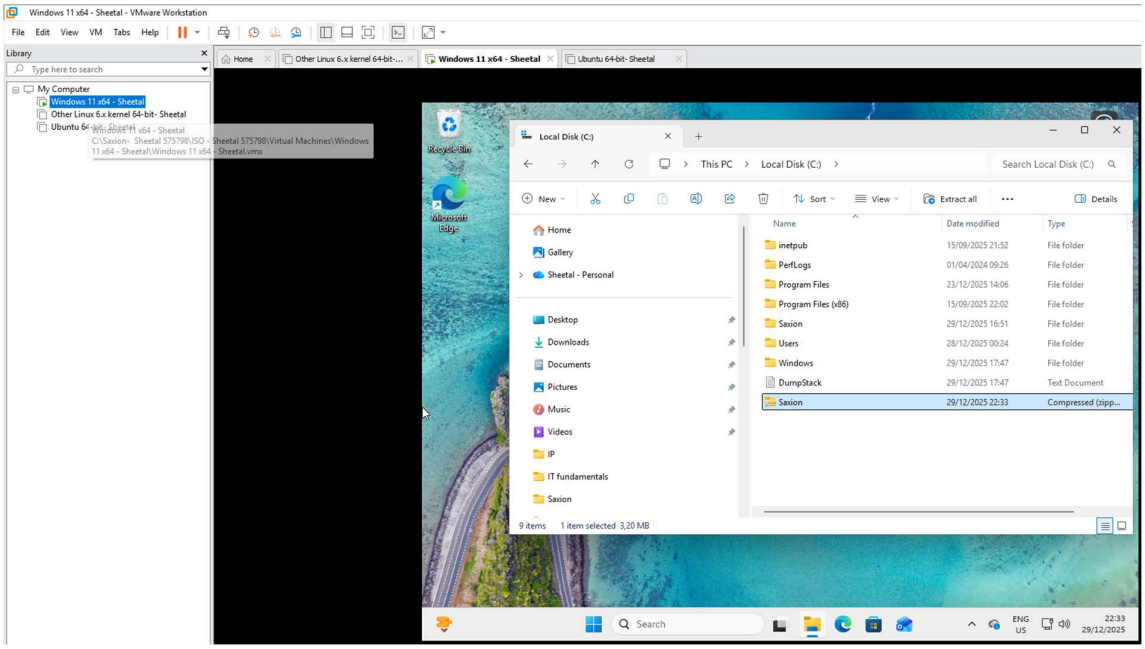


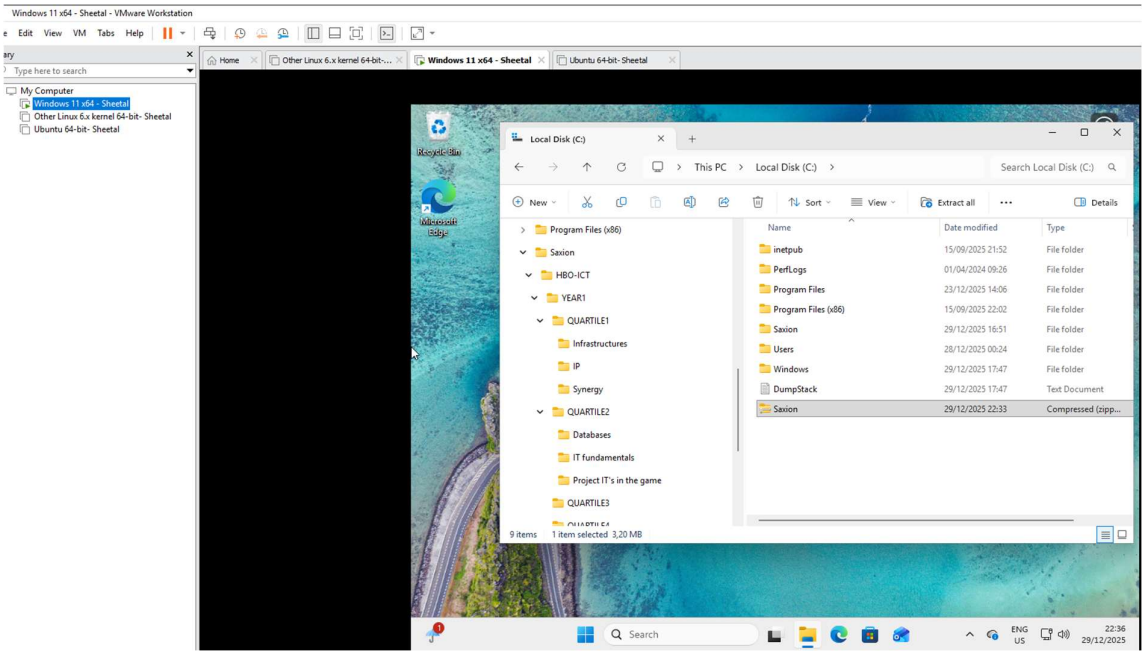


Relevant screenshots **tree** command:



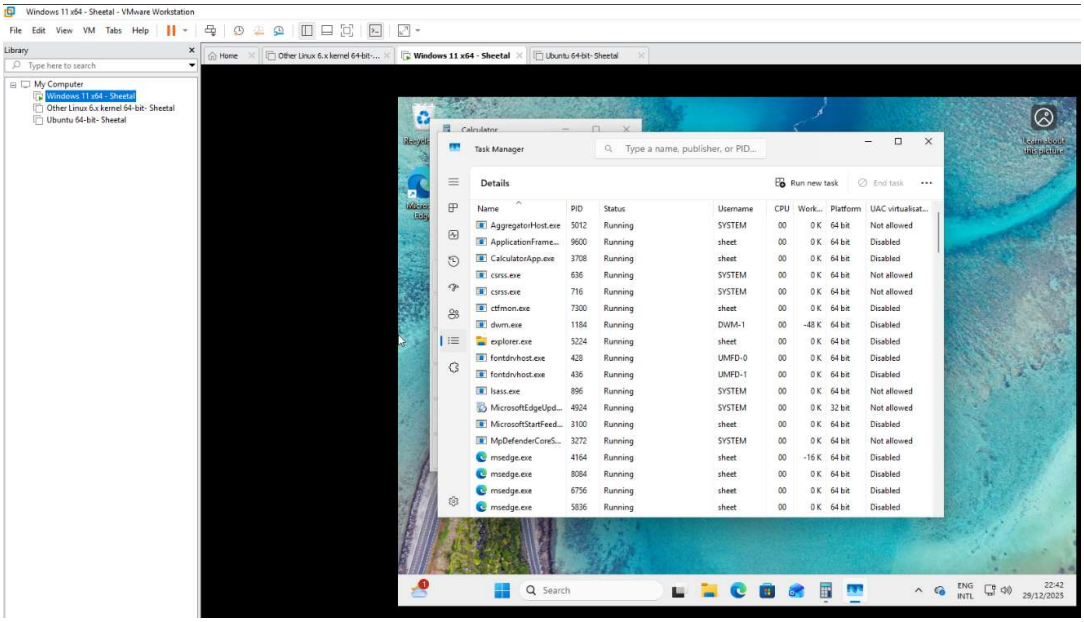
Relevant screenshots in the file explorer of the folder c:\Saxion + created zip file.

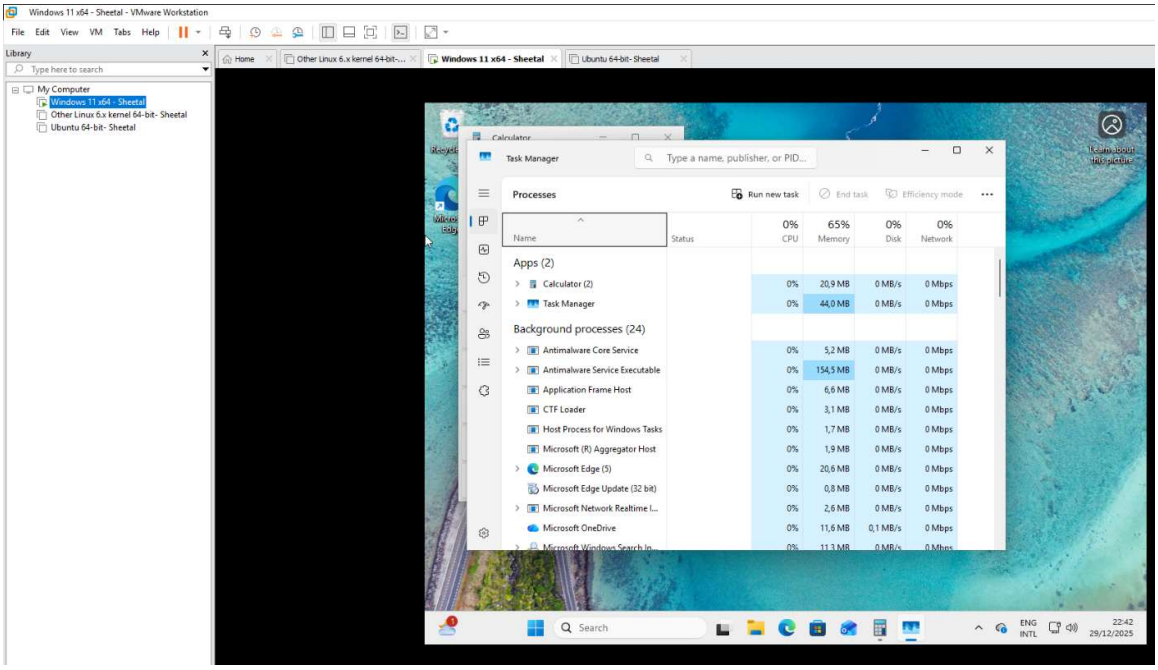


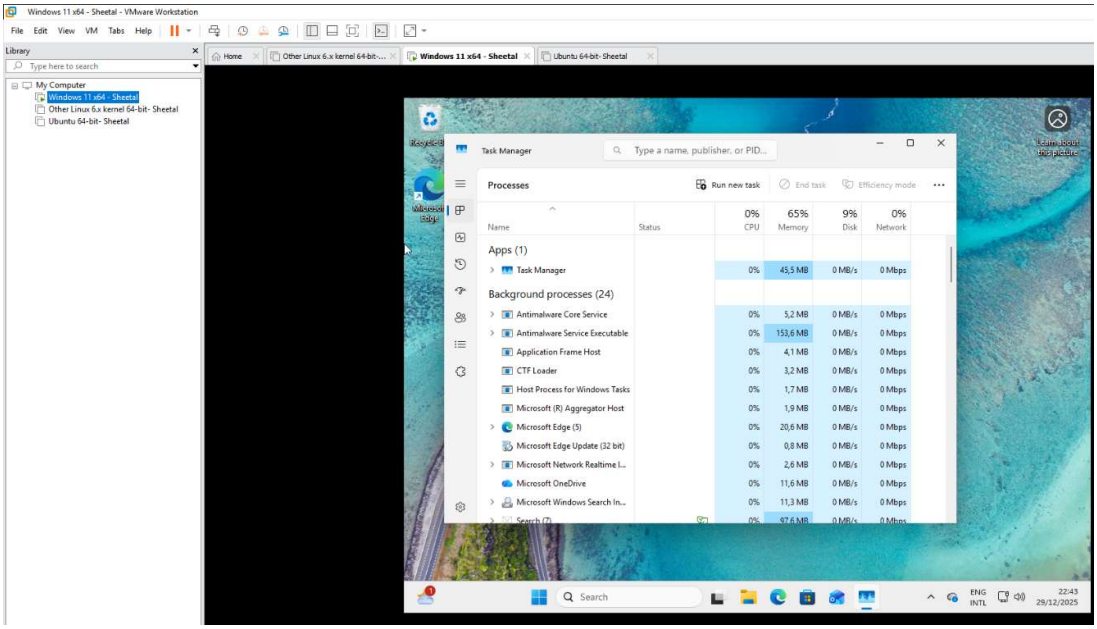


Terminating Processes

Relevant Screenshots Task Manager Window:



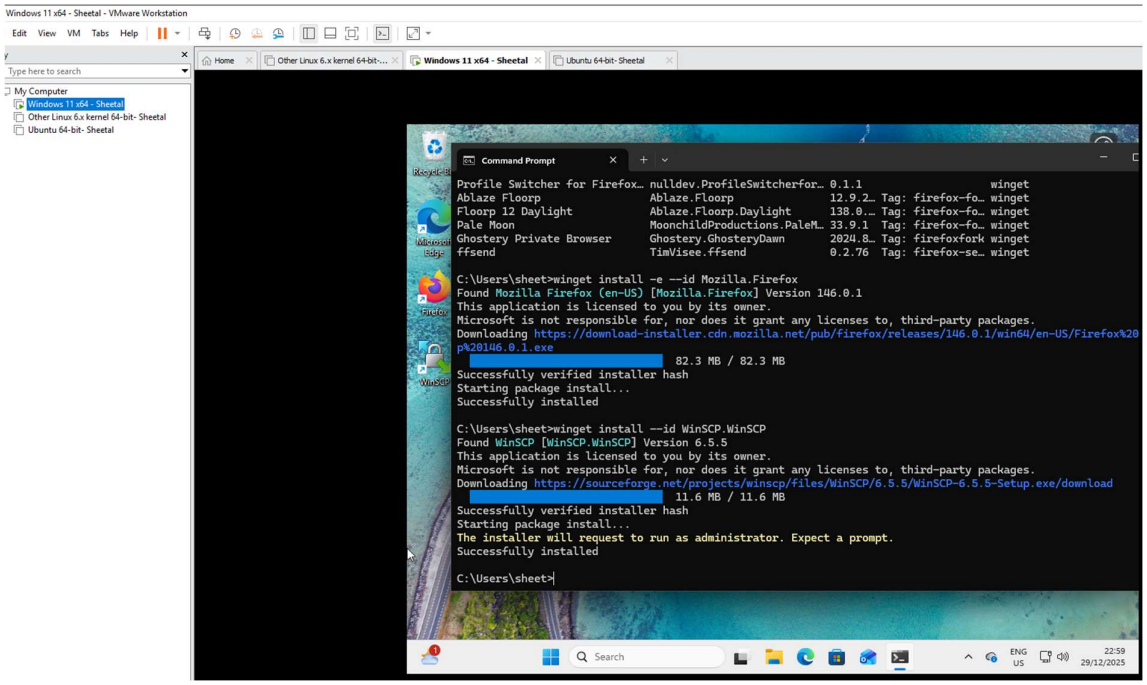


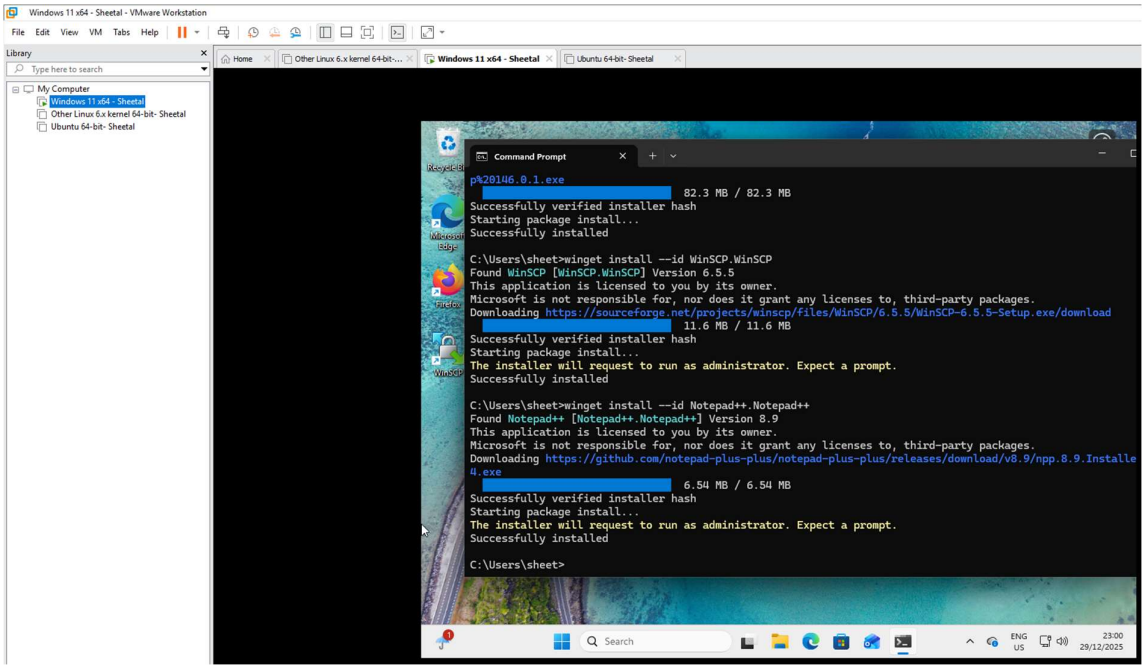


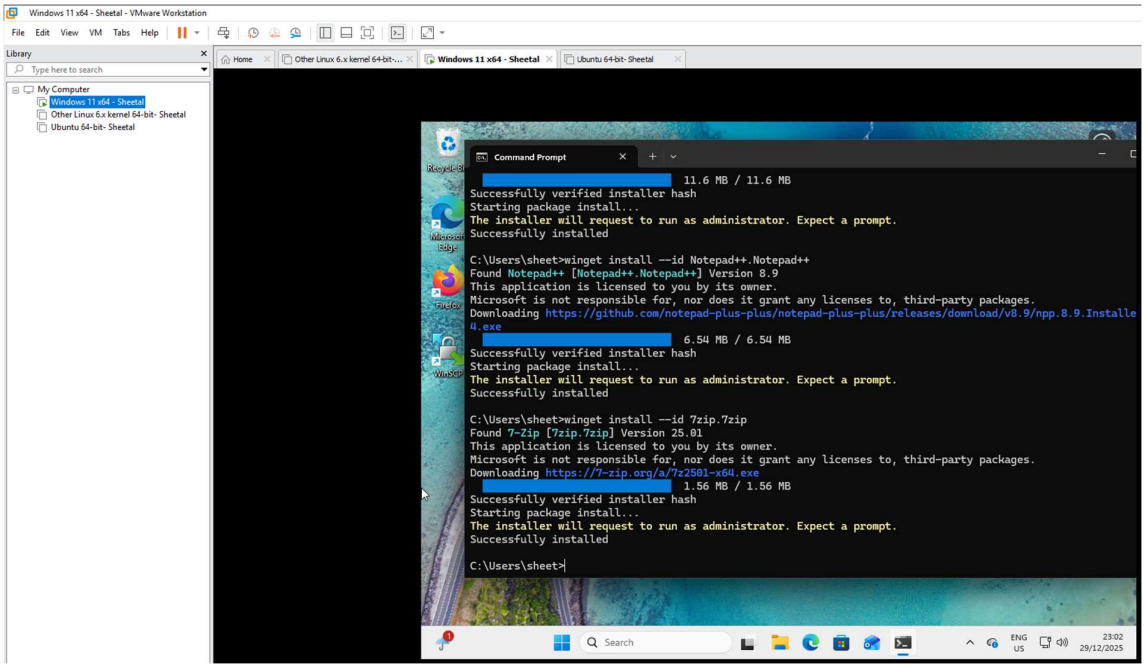
Install Software

Relevant screenshots that the following software is installed with winget:

- WinSCP
- Notepad++
- 7zip

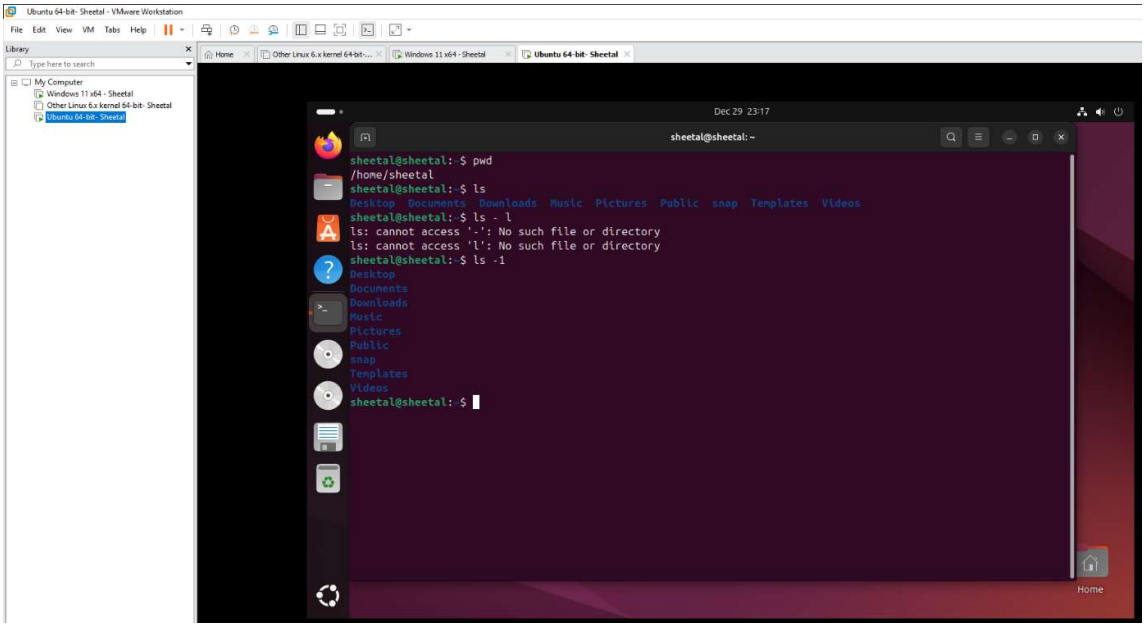

Windows 11 x64 - Sheetal - VMware Workstation
Edit View VM Tabs Help
My Computer
Windows 11 x64 - Sheetal
Other Linux 6.x kernel 64-bit- Sheetal
Ubuntu 64-bit- Sheetal
Command Prompt
Profile Switcher for Firefox… nulldev.ProfileSwitcherfor… 0.1.1 winget
Ablaze Floorp Ablaze.Floorp 12.9.2… Tag: firefox-fo… winget
Floorp 12 Daylight Ablaze.Floorp.Daylight 138.0.… Tag: firefox-fo… winget
Pale Moon MoonchildProductions.PaleM… 33.9.1 Tag: firefox-fo… winget
Ghostery Private Browser Ghostery.GhosteryDawn 2024.8… Tag: firefoxfork winget
ffsend TimVisee.ffsend 0.2.76 Tag: firefox-se… winget
C:\Users\sheet>winget install -e --id Mozilla.Firefox
Found Mozilla Firefox (en-US) [Mozilla.Firefox] Version 146.0.1
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://download-installer.cdn.mozilla.net/pub/firefox/releases/146.0.1/win64/en-US/Firefox%20
p%20146.0.1.exe
82.3 MB / 82.3 MB
Successfully verified installer hash
Starting package install...
Successfully installed
C:\Users\sheet>winget install --id WinSCP.WinSCP
Found WinSCP [WinSCP.WinSCP] Version 6.5.5
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://sourceforge.net/projects/winscp/files/WinSCP/6.5.5/WinSCP-6.5.5-Setup.exe/download
11.6 MB / 11.6 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>
Search
ENG US
22:59
29/12/2025

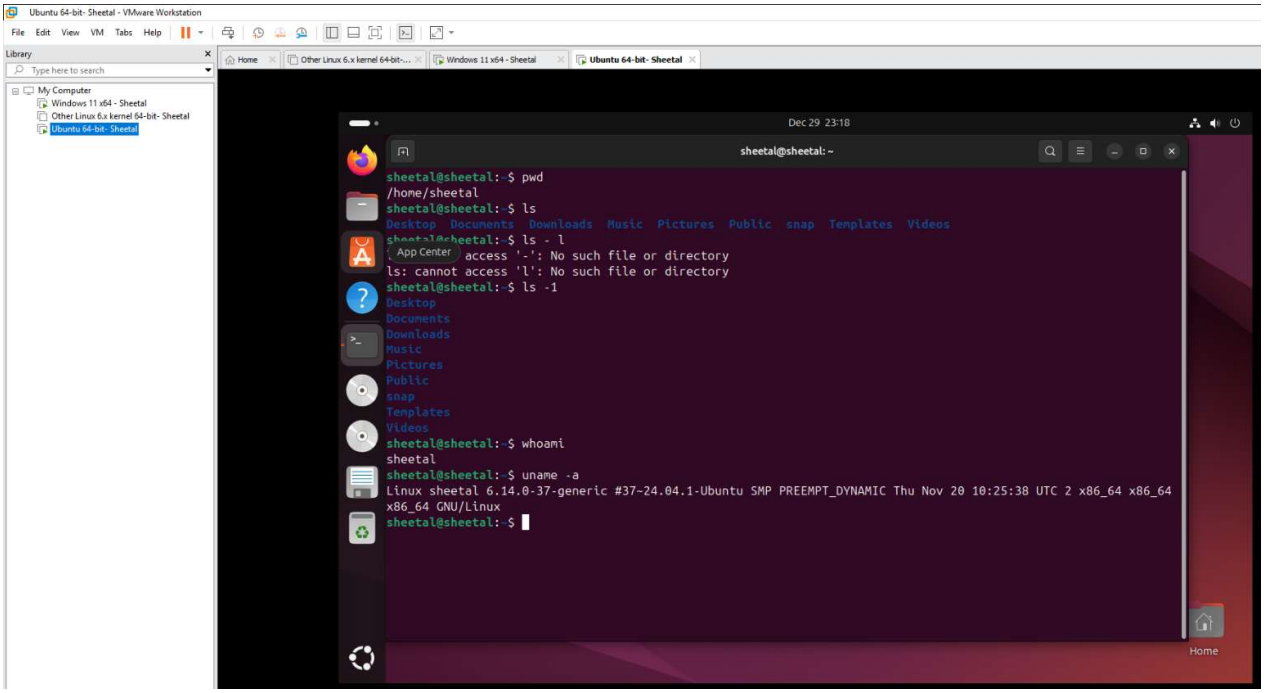

Windows 11 x64 - Sheetal - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Windows 11 x64 - Sheetal
Other Linux 6.x kernel 64-bit- Sheetal
Ubuntu 64-bit- Sheetal
Command Prompt
p%20146.0.1.exe
82.3 MB / 82.3 MB
Successfully verified installer hash
Starting package install...
Successfully installed
C:\Users\sheet>winget install --id WinSCP.WinSCP
Found WinSCP [WinSCP.WinSCP] Version 6.5.5
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://sourceforge.net/projects/winscp/files/WinSCP/6.5.5/WinSCP-6.5.5-Setup.exe/download
11.6 MB / 11.6 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>winget install --id Notepad++.Notepad++
Found Notepad++ [Notepad++.Notepad++] Version 8.9
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://github.com/notepad-plus-plus/notepad-plus-plus/releases/download/v8.9/npp.8.9.Installe
4.exe
6.54 MB / 6.54 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>
Search
ENG US
23:00
29/12/2025


Windows 11 x64 - Sheetal - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Windows 11 x64 - Sheetal
Other Linux 6.x kernel 64-bit- Sheetal
Ubuntu 64-bit- Sheetal
Home
Other Linux 6.x kernel 64-bit-...
Windows 11 x64 - Sheetal
Ubuntu 64-bit- Sheetal
Command Prompt
11.6 MB / 11.6 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>winget install --id Notepad++.Notepad++
Found Notepad++ [Notepad++.Notepad++] Version 8.9
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://github.com/notepad-plus-plus/notepad-plus-plus/releases/download/v8.9/npp.8.9.Installe
4.exe
6.54 MB / 6.54 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>winget install --id 7zip.7zip
Found 7-Zip [7zip.7zip] Version 25.01
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://7-zip.org/a/7z2501-x64.exe
1.56 MB / 1.56 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator. Expect a prompt.
Successfully installed
C:\Users\sheet>
Search
ENG
US
23:02
29/12/2025

Assignment 5.4: Working with Linux

Relevant screenshots + motivation





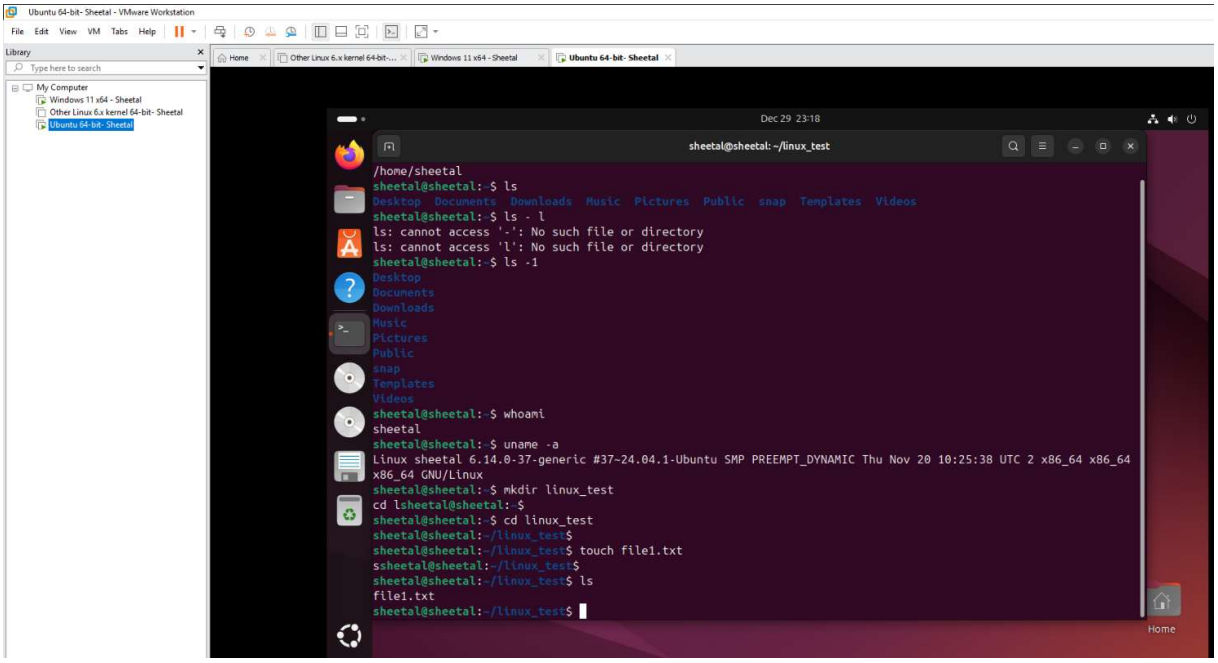
As you can see this screenshot shows the use of the pwd command which displays the current working directory in the Ubuntu 24.04 Desktop VM.

The whoami screenshots displays the acitve logged in user by using this command.

The uname – a command shows the system and kernel level information confirming the system is Ubuntu 24.04 running on a 64 bit Linux kernel.

Assignment 5.5: Users and permissions on Linux

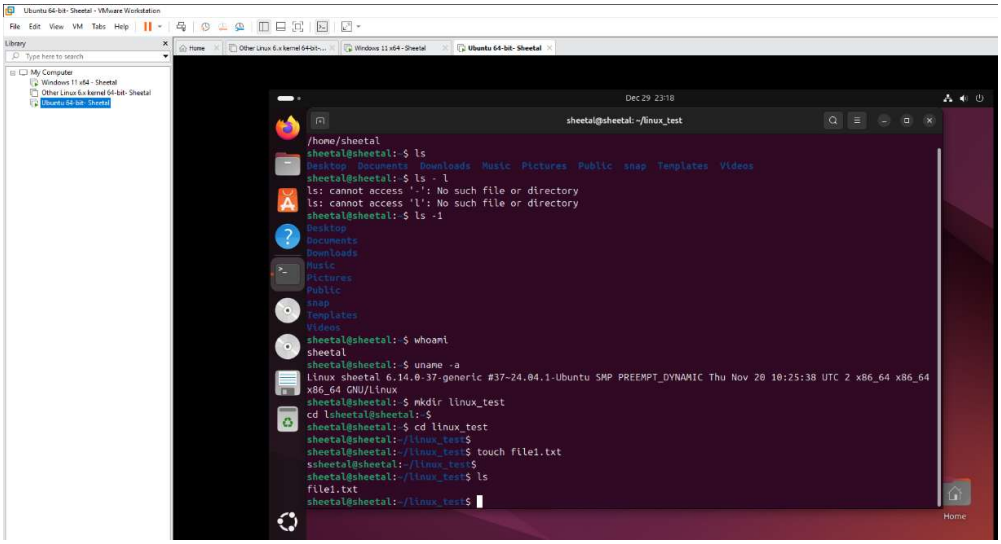
Relevant screenshots + motivation



This screenshot shows the contents of the home directory. The ls – 1 shows the same list but in a column instead.

Assignment 5.6: View the contents of files

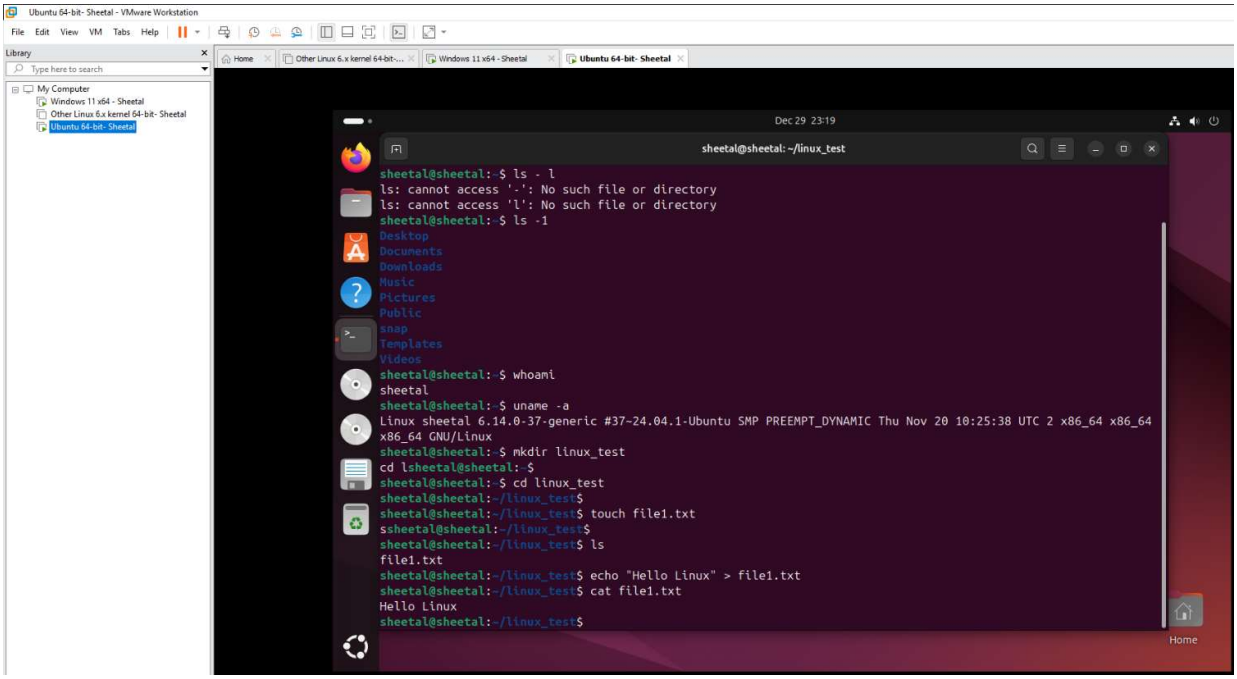
Relevant screenshots + motivation



The mkdir linux_test command shows the creation of a new directory. The cd command shows the navigation into the new directory.

Assignment 5.7: Digital forensics

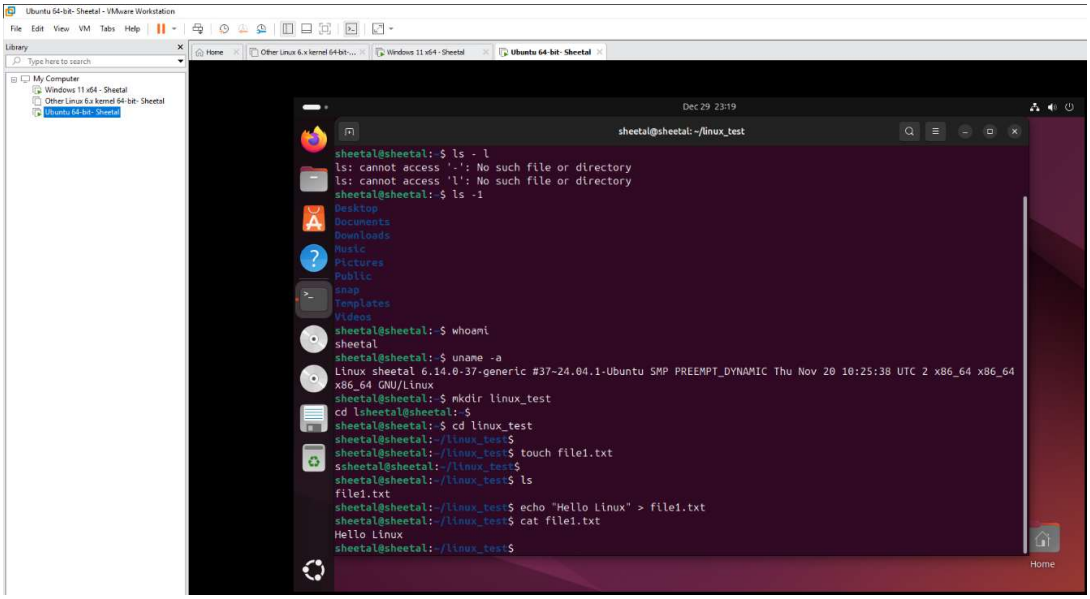
Relevant screenshots + motivation



This screenshot shows the creation of an empty file. The ls confirms that the new file exists in the directory.

Assignment 5.8: Steganography

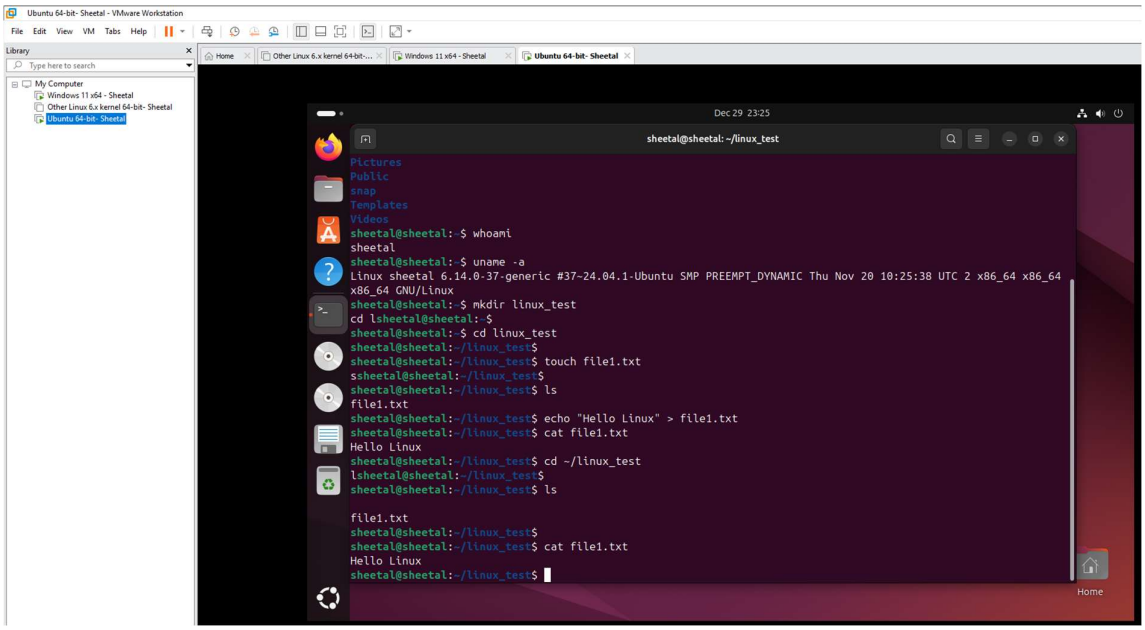
Relevant screenshots + motivation



The echo line command shows the text being written to a file. The cat command shows the demonstration of reading the contents of a file,

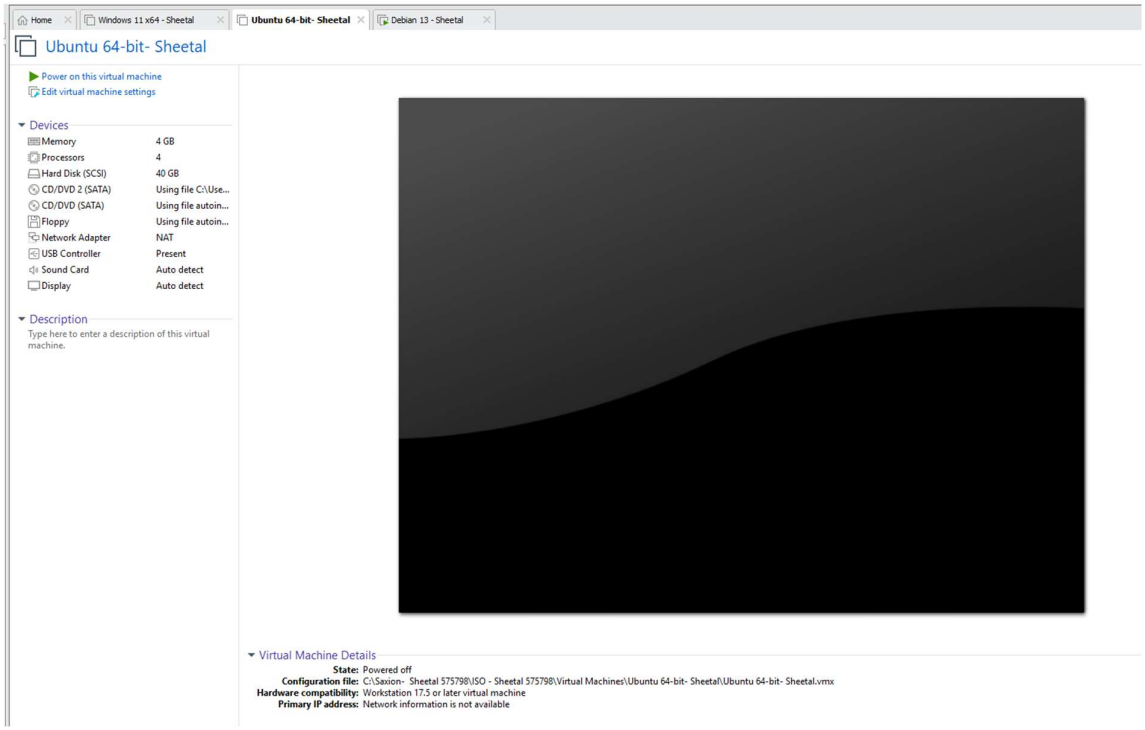
Assignment 5.9: Capture disk images

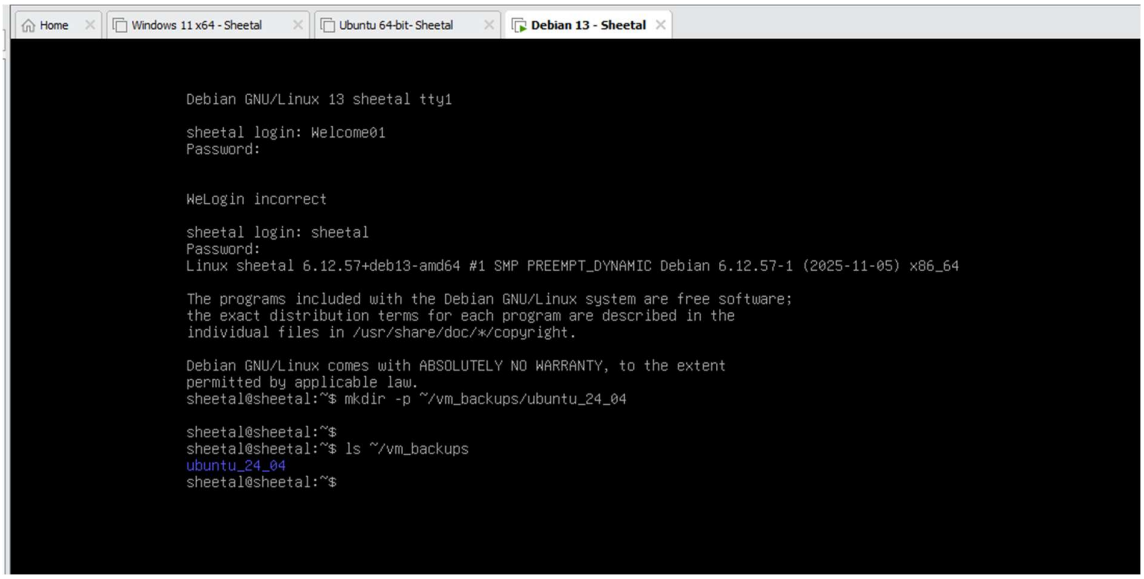
Make relevant screenshots + motivation:

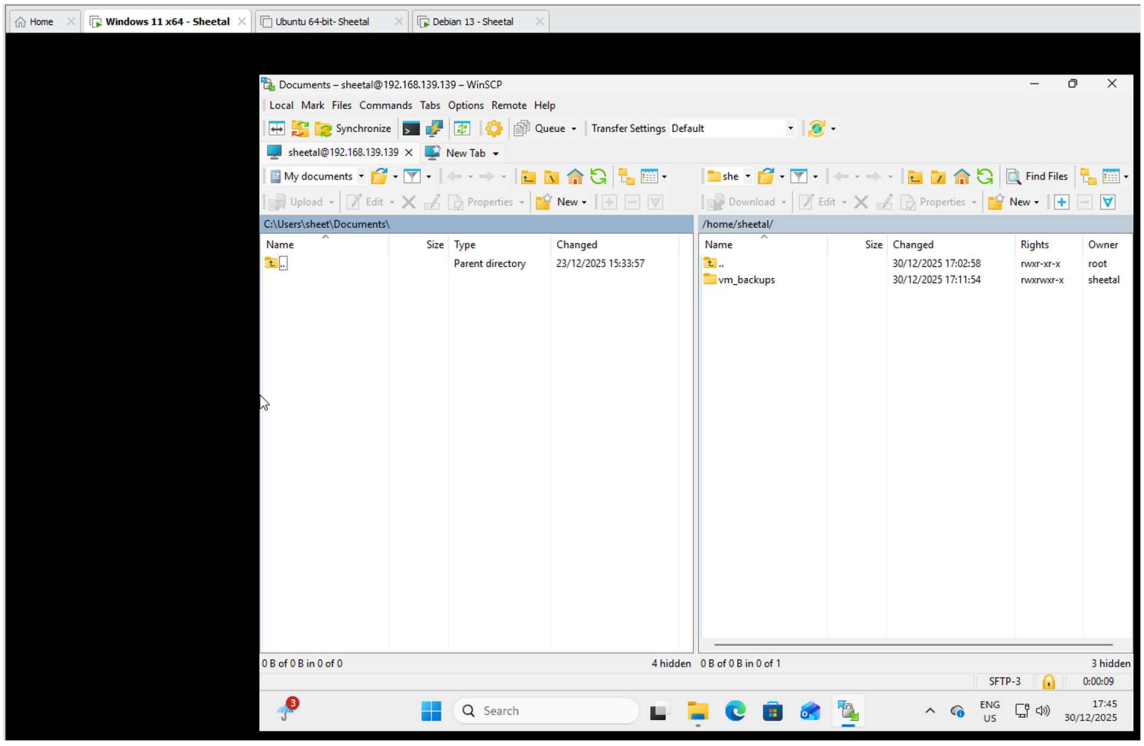


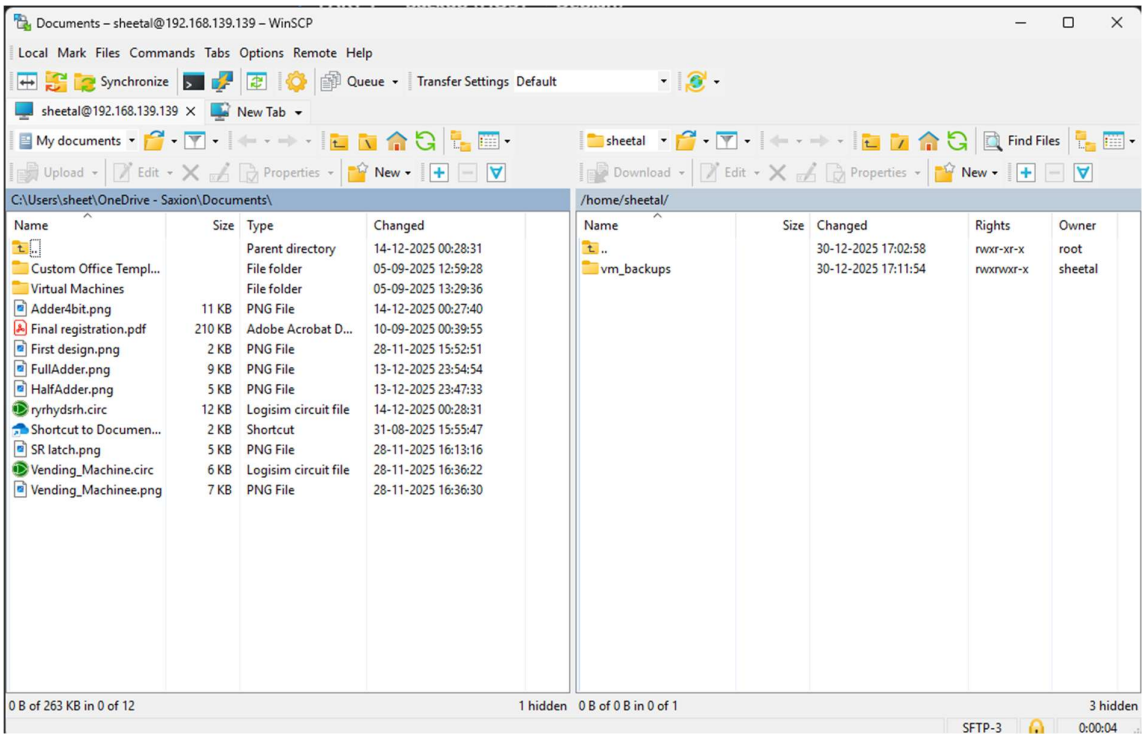
This screenshot verifies that the new file is stored in the home directory with its relevant contents.

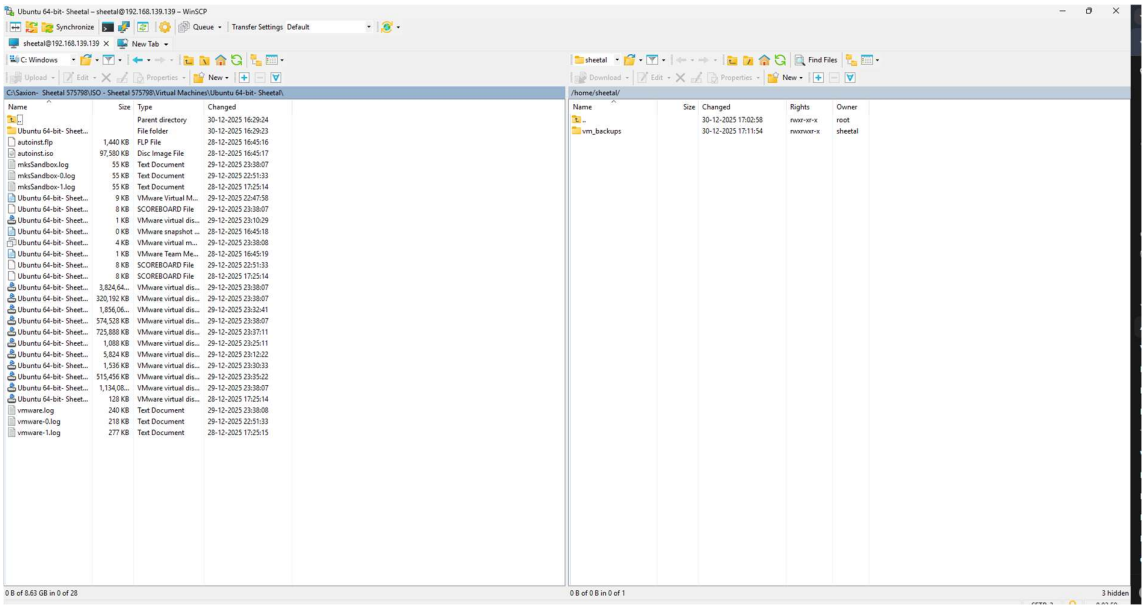
- Proof that the Debian 13 server stored a back-up image of the Ubuntu 24.04 Desktop VM.
- Proof that you can restore the back-up image into an empty VM.

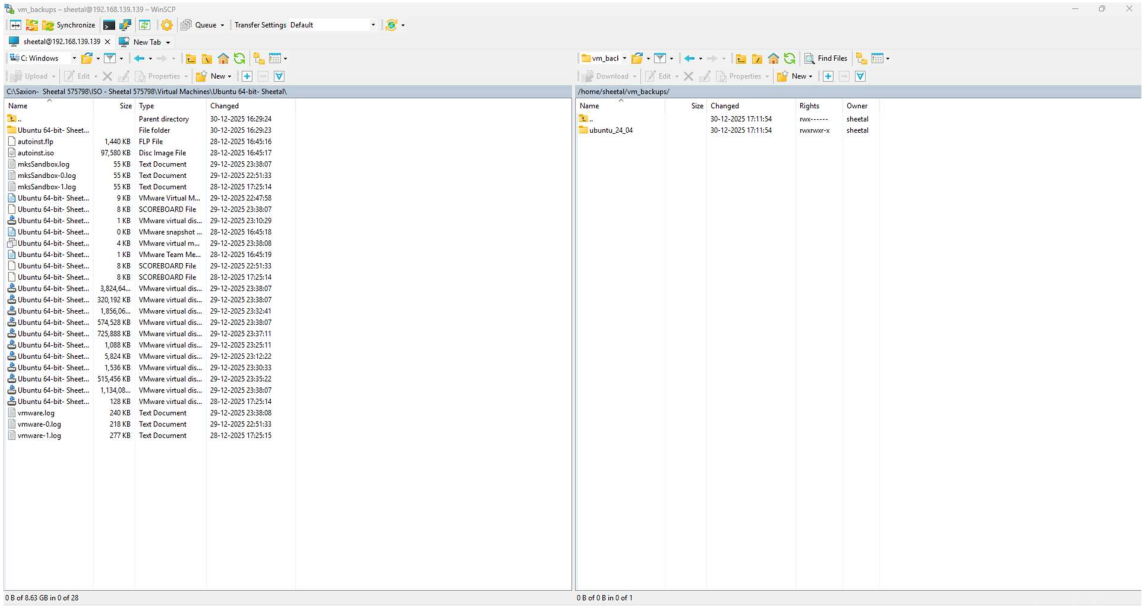


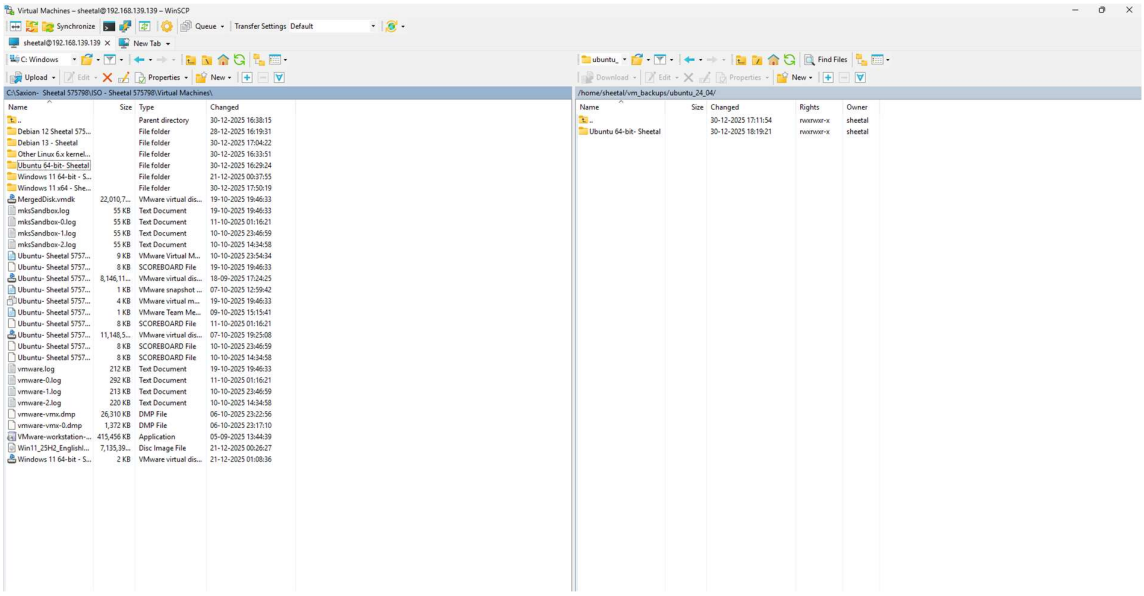


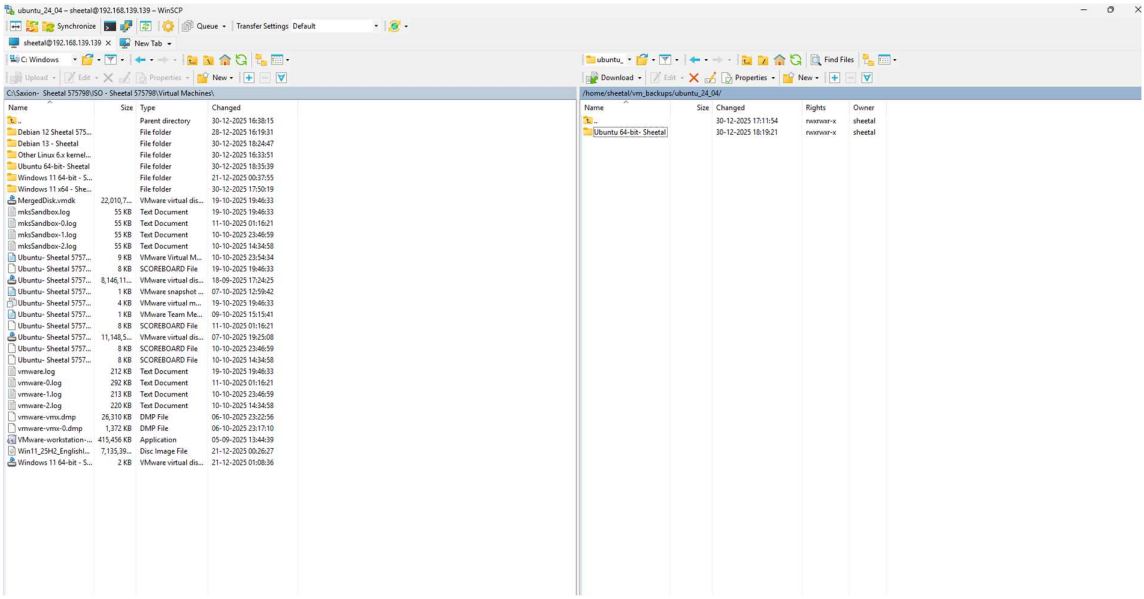

Home
Windows 11 x64 - Sheetal
Ubuntu 64-bit- Sheetal
Debian 13 - Sheetal
Documents – sheetal@192.168.139.139 – WinSCP
Local Mark Files Commands Tabs Options Remote Help
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
My documents
Upload
Edit
Properties
New
Find Files
Download
C:\Users\sheet\Documents\
Name Size Type Changed
Parent directory 23/12/2025 15:33:57
/home/sheetal/
Name Size Changed Rights Owner
.. 30/12/2025 17:02:58 rwxr-xr-x root
vm_backups 30/12/2025 17:11:54 rwxrwxr-x sheetal
0 B of 0 B in 0 of 0
4 hidden
0 B of 0 B in 0 of 1
3 hidden
SFTP-3
0:00:09
Search
ENG
US
17:45
30/12/2025

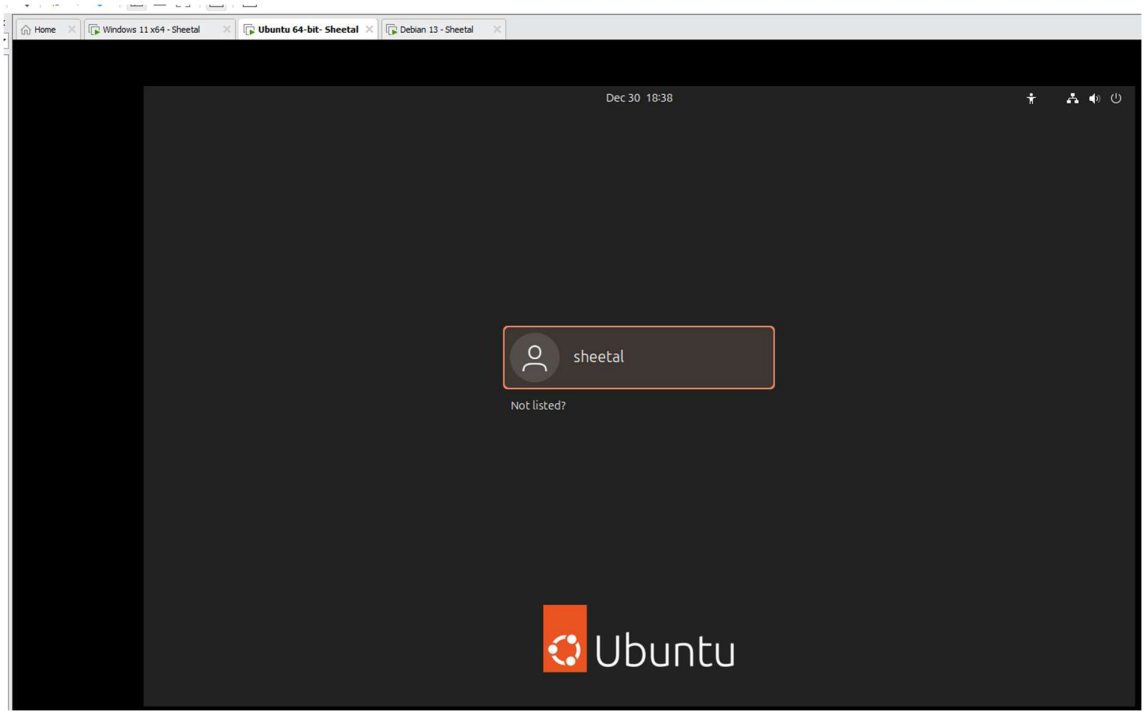

Documents – sheetal@192.168.139.139 – WinSCP
Local Mark Files Commands Tabs Options Remote Help
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
My documents
sheetal
Upload
Edit
Properties
New
Find Files
Download
C:\Users\sheet\OneDrive - Saxion\Documents\
Name Size Type Changed
Parent directory 14-12-2025 00:28:31
Custom Office Templ... File folder 05-09-2025 12:59:28
Virtual Machines File folder 05-09-2025 13:29:36
Adder4bit.png 11 KB PNG File 14-12-2025 00:27:40
Final registration.pdf 210 KB Adobe Acrobat D... 10-09-2025 00:39:55
First design.png 2 KB PNG File 28-11-2025 15:52:51
FullAdder.png 9 KB PNG File 13-12-2025 23:54:54
HalfAdder.png 5 KB PNG File 13-12-2025 23:47:33
ryrhydsrh.circ 12 KB Logisim circuit file 14-12-2025 00:28:31
Shortcut to Documen... 2 KB Shortcut 31-08-2025 15:55:47
SR latch.png 5 KB PNG File 28-11-2025 16:13:16
Vending_Machine.circ 6 KB Logisim circuit file 28-11-2025 16:36:22
Vending_Machinee.png 7 KB PNG File 28-11-2025 16:36:30
/home/sheetal/
Name Size Changed Rights Owner
.. 30-12-2025 17:02:58 rwxr-xr-x root
vm_backups 30-12-2025 17:11:54 rwxrwxr-x sheetal
0 B of 263 KB in 0 of 12
1 hidden
0 B of 0 B in 0 of 1
3 hidden
SFTP-3
0:00:04

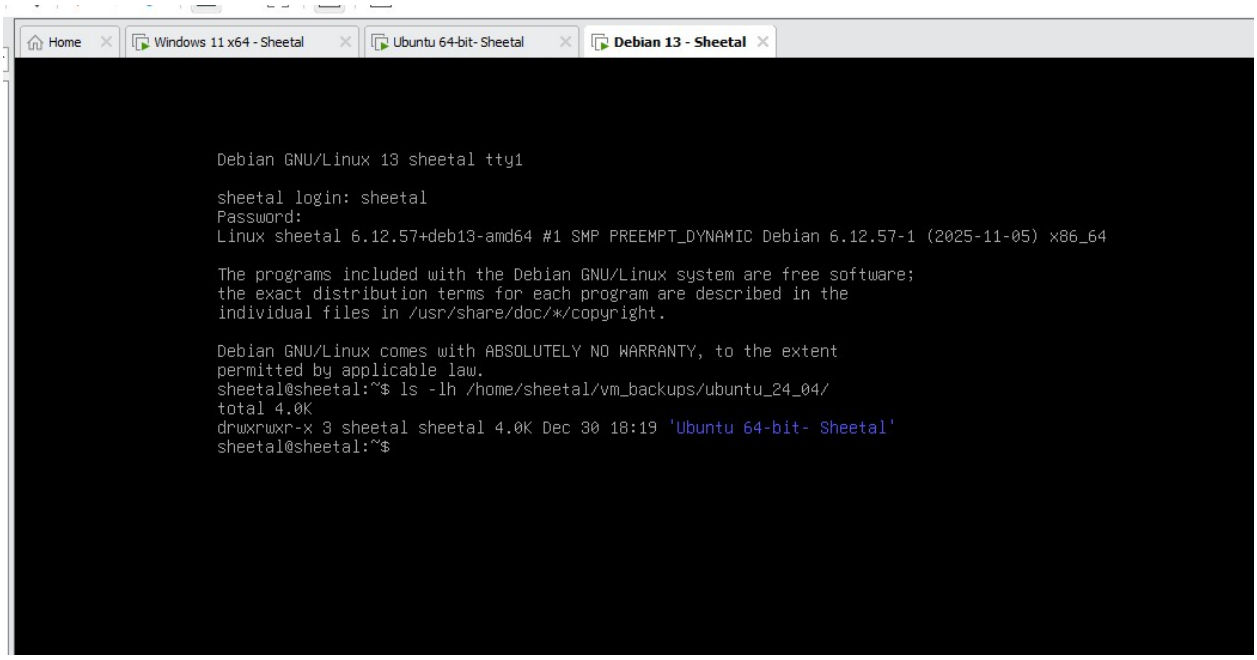

Ubuntu 64-bit- Sheetal – sheetal@192.168.139.139 – WinSCP
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
C: Windows
Upload
Edit
Properties
New
C:\Saxion- Sheetal 575798\ISO - Sheetal 575798\Virtual Machines\Ubuntu 64-bit- Sheetal\
Name
Size
Type
Changed
Parent directory 30-12-2025 16:29:24
Ubuntu 64-bit- Sheet... File folder 30-12-2025 16:29:23
autoinst.flp 1,440 KB FLP File 28-12-2025 16:45:16
autoinst.iso 97,580 KB Disc Image File 28-12-2025 16:45:17
mksSandbox.log 55 KB Text Document 29-12-2025 23:38:07
mksSandbox-0.log 55 KB Text Document 29-12-2025 22:51:33
mksSandbox-1.log 55 KB Text Document 28-12-2025 17:25:14
Ubuntu 64-bit- Sheet... 9 KB VMware Virtual M... 29-12-2025 22:47:58
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 1 KB VMware virtual dis... 29-12-2025 23:10:29
Ubuntu 64-bit- Sheet... 0 KB VMware snapshot ... 28-12-2025 16:45:18
Ubuntu 64-bit- Sheet... 4 KB VMware virtual m... 29-12-2025 23:38:08
Ubuntu 64-bit- Sheet... 1 KB VMware Team Me... 28-12-2025 16:45:19
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 29-12-2025 22:51:33
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 28-12-2025 17:25:14
Ubuntu 64-bit- Sheet... 3,824,64... VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 320,192 KB VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 1,856,06... VMware virtual dis... 29-12-2025 23:32:41
Ubuntu 64-bit- Sheet... 574,528 KB VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 725,888 KB VMware virtual dis... 29-12-2025 23:37:11
Ubuntu 64-bit- Sheet... 1,088 KB VMware virtual dis... 29-12-2025 23:25:11
Ubuntu 64-bit- Sheet... 5,824 KB VMware virtual dis... 29-12-2025 23:12:22
Ubuntu 64-bit- Sheet... 1,536 KB VMware virtual dis... 29-12-2025 23:30:33
Ubuntu 64-bit- Sheet... 515,456 KB VMware virtual dis... 29-12-2025 23:35:22
Ubuntu 64-bit- Sheet... 1,134,08... VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 128 KB VMware virtual dis... 28-12-2025 17:25:14
vmware.log 240 KB Text Document 29-12-2025 23:38:08
vmware-0.log 218 KB Text Document 29-12-2025 22:51:33
vmware-1.log 277 KB Text Document 28-12-2025 17:25:15
0 B of 8.63 GB in 0 of 28
Download
Edit
Properties
New
Find Files
/home/sheetal/
Name
Size
Changed
Rights
Owner
.. 30-12-2025 17:02:58 rwxr-xr-x root
vm_backups 30-12-2025 17:11:54 rwxrwxr-x sheetal
0 B of 0 B in 0 of 1
3 hidden


vm_backups – sheetal@192.168.139.139 – WinSCP
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
C: Windows
Upload
Edit
Properties
New
C:\Saxion- Sheetal 575798\ISO - Sheetal 575798\Virtual Machines\Ubuntu 64-bit- Sheetal\
Name
Size
Type
Changed
Parent directory 30-12-2025 16:29:24
Ubuntu 64-bit- Sheet... File folder 30-12-2025 16:29:23
autoinst.flp 1,440 KB FLP File 28-12-2025 16:45:16
autoinst.iso 97,580 KB Disc Image File 28-12-2025 16:45:17
mksSandbox.log 55 KB Text Document 29-12-2025 23:38:07
mksSandbox-0.log 55 KB Text Document 29-12-2025 22:51:33
mksSandbox-1.log 55 KB Text Document 28-12-2025 17:25:14
Ubuntu 64-bit- Sheet... 9 KB VMware Virtual M... 29-12-2025 22:47:58
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 1 KB VMware virtual dis... 29-12-2025 23:10:29
Ubuntu 64-bit- Sheet... 0 KB VMware snapshot ... 28-12-2025 16:45:18
Ubuntu 64-bit- Sheet... 4 KB VMware virtual m... 29-12-2025 23:38:08
Ubuntu 64-bit- Sheet... 1 KB VMware Team Me... 28-12-2025 16:45:19
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 29-12-2025 22:51:33
Ubuntu 64-bit- Sheet... 8 KB SCOREBOARD File 28-12-2025 17:25:14
Ubuntu 64-bit- Sheet... 3,824,64... VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 320,192 KB VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 1,856,06... VMware virtual dis... 29-12-2025 23:32:41
Ubuntu 64-bit- Sheet... 574,528 KB VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 725,888 KB VMware virtual dis... 29-12-2025 23:37:11
Ubuntu 64-bit- Sheet... 1,088 KB VMware virtual dis... 29-12-2025 23:25:11
Ubuntu 64-bit- Sheet... 5,824 KB VMware virtual dis... 29-12-2025 23:12:22
Ubuntu 64-bit- Sheet... 1,536 KB VMware virtual dis... 29-12-2025 23:30:33
Ubuntu 64-bit- Sheet... 515,456 KB VMware virtual dis... 29-12-2025 23:35:22
Ubuntu 64-bit- Sheet... 1,134,08... VMware virtual dis... 29-12-2025 23:38:07
Ubuntu 64-bit- Sheet... 128 KB VMware virtual dis... 28-12-2025 17:25:14
vmware.log 240 KB Text Document 29-12-2025 23:38:08
vmware-0.log 218 KB Text Document 29-12-2025 22:51:33
vmware-1.log 277 KB Text Document 28-12-2025 17:25:15
0 B of 8.63 GB in 0 of 28
Download
Edit
Properties
New
Find Files
vm_bacl
/home/sheetal/vm_backups/
Name
Size
Changed
Rights
Owner
.. 30-12-2025 17:11:54 rwx------ sheetal
ubuntu_24_04 30-12-2025 17:11:54 rwxrwxr-x sheetal
0 B of 0 B in 0 of 1


Virtual Machines – sheetal@192.168.139.139 – WinSCP
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
C: Windows
Upload
Edit
Properties
New
C:\Saxion- Sheetal 575798\ISO - Sheetal 575798\Virtual Machines\
Name
Size
Type
Changed
Parent directory 30-12-2025 16:38:15
Debian 12 Sheetal 575... File folder 28-12-2025 16:19:31
Debian 13 - Sheetal File folder 30-12-2025 17:04:22
Other Linux 6.x kernel... File folder 30-12-2025 16:33:51
Ubuntu 64-bit- Sheetal File folder 30-12-2025 16:29:24
Windows 11 64-bit - S... File folder 21-12-2025 00:37:55
Windows 11 x64 - She... File folder 30-12-2025 17:50:19
MergedDisk.vmdk 22,010,7... VMware virtual dis... 19-10-2025 19:46:33
mksSandbox.log 55 KB Text Document 19-10-2025 19:46:33
mksSandbox-0.log 55 KB Text Document 11-10-2025 01:16:21
mksSandbox-1.log 55 KB Text Document 10-10-2025 23:46:59
mksSandbox-2.log 55 KB Text Document 10-10-2025 14:34:58
Ubuntu- Sheetal 5757... 9 KB VMware Virtual M... 10-10-2025 23:54:34
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 19-10-2025 19:46:33
Ubuntu- Sheetal 5757... 8,146,11... VMware virtual dis... 18-09-2025 17:24:25
Ubuntu- Sheetal 5757... 1 KB VMware snapshot ... 07-10-2025 12:59:42
Ubuntu- Sheetal 5757... 4 KB VMware virtual m... 19-10-2025 19:46:33
Ubuntu- Sheetal 5757... 1 KB VMware Team Me... 09-10-2025 15:15:41
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 11-10-2025 01:16:21
Ubuntu- Sheetal 5757... 11,148,5... VMware virtual dis... 07-10-2025 19:25:08
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 10-10-2025 23:46:59
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 10-10-2025 14:34:58
vmware.log 212 KB Text Document 19-10-2025 19:46:33
vmware-0.log 292 KB Text Document 11-10-2025 01:16:21
vmware-1.log 213 KB Text Document 10-10-2025 23:46:59
vmware-2.log 220 KB Text Document 10-10-2025 14:34:58
vmware-vmx.dmp 26,310 KB DMP File 06-10-2025 23:22:56
vmware-vmx-0.dmp 1,372 KB DMP File 06-10-2025 23:17:10
VMware-workstation-... 415,456 KB Application 05-09-2025 13:44:39
Win11_25H2_Englishl... 7,135,39... Disc Image File 21-12-2025 00:26:27
Windows 11 64-bit - S... 2 KB VMware virtual dis... 21-12-2025 01:08:36
ubuntu_
Find Files
Download
/home/sheetal/vm_backups/ubuntu_24_04/
Name
Size
Changed
Rights
Owner
30-12-2025 17:11:54 rwxrwxr-x sheetal
Ubuntu 64-bit- Sheetal 30-12-2025 18:19:21 rwxrwxr-x sheetal


ubuntu_24_04 – sheetal@192.168.139.139 – WinSCP
Synchronize
Queue
Transfer Settings Default
sheetal@192.168.139.139
New Tab
C: Windows
Upload
Edit
Properties
New
C:\Saxion- Sheetal 575798\ISO - Sheetal 575798\Virtual Machines\
Name
Size
Type
Changed
Parent directory 30-12-2025 16:38:15
Debian 12 Sheetal 575... File folder 28-12-2025 16:19:31
Debian 13 - Sheetal File folder 30-12-2025 18:24:47
Other Linux 6.x kernel... File folder 30-12-2025 16:33:51
Ubuntu 64-bit- Sheetal File folder 30-12-2025 18:35:39
Windows 11 64-bit - S... File folder 21-12-2025 00:37:55
Windows 11 x64 - She... File folder 30-12-2025 17:50:19
MergedDisk.vmdk 22,010,7... VMware virtual dis... 19-10-2025 19:46:33
mksSandbox.log 55 KB Text Document 19-10-2025 19:46:33
mksSandbox-0.log 55 KB Text Document 11-10-2025 01:16:21
mksSandbox-1.log 55 KB Text Document 10-10-2025 23:46:59
mksSandbox-2.log 55 KB Text Document 10-10-2025 14:34:58
Ubuntu- Sheetal 5757... 9 KB VMware Virtual M... 10-10-2025 23:54:34
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 19-10-2025 19:46:33
Ubuntu- Sheetal 5757... 8,146,11... VMware virtual dis... 18-09-2025 17:24:25
Ubuntu- Sheetal 5757... 1 KB VMware snapshot ... 07-10-2025 12:59:42
Ubuntu- Sheetal 5757... 4 KB VMware virtual m... 19-10-2025 19:46:33
Ubuntu- Sheetal 5757... 1 KB VMware Team Me... 09-10-2025 15:15:41
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 11-10-2025 01:16:21
Ubuntu- Sheetal 5757... 11,148,5... VMware virtual dis... 07-10-2025 19:25:08
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 10-10-2025 23:46:59
Ubuntu- Sheetal 5757... 8 KB SCOREBOARD File 10-10-2025 14:34:58
vmware.log 212 KB Text Document 19-10-2025 19:46:33
vmware-0.log 292 KB Text Document 11-10-2025 01:16:21
vmware-1.log 213 KB Text Document 10-10-2025 23:46:59
vmware-2.log 220 KB Text Document 10-10-2025 14:34:58
vmware-vmx.dmp 26,310 KB DMP File 06-10-2025 23:22:56
vmware-vmx-0.dmp 1,372 KB DMP File 06-10-2025 23:17:10
VMware-workstation-... 415,456 KB Application 05-09-2025 13:44:39
Win11_25H2_Englishl... 7,135,39... Disc Image File 21-12-2025 00:26:27
Windows 11 64-bit - S... 2 KB VMware virtual dis... 21-12-2025 01:08:36
ubuntu_
Find Files
Download
Edit
Properties
New
/home/sheetal/vm_backups/ubuntu_24_04/
Name
Size
Changed
Rights
Owner
30-12-2025 17:11:54 rwxrwxr-x sheetal
Ubuntu 64-bit- Sheetal 30-12-2025 18:19:21 rwxrwxr-x sheetal





Ready? Save this file and export it as a pdf file with the name: **week5.pdf**