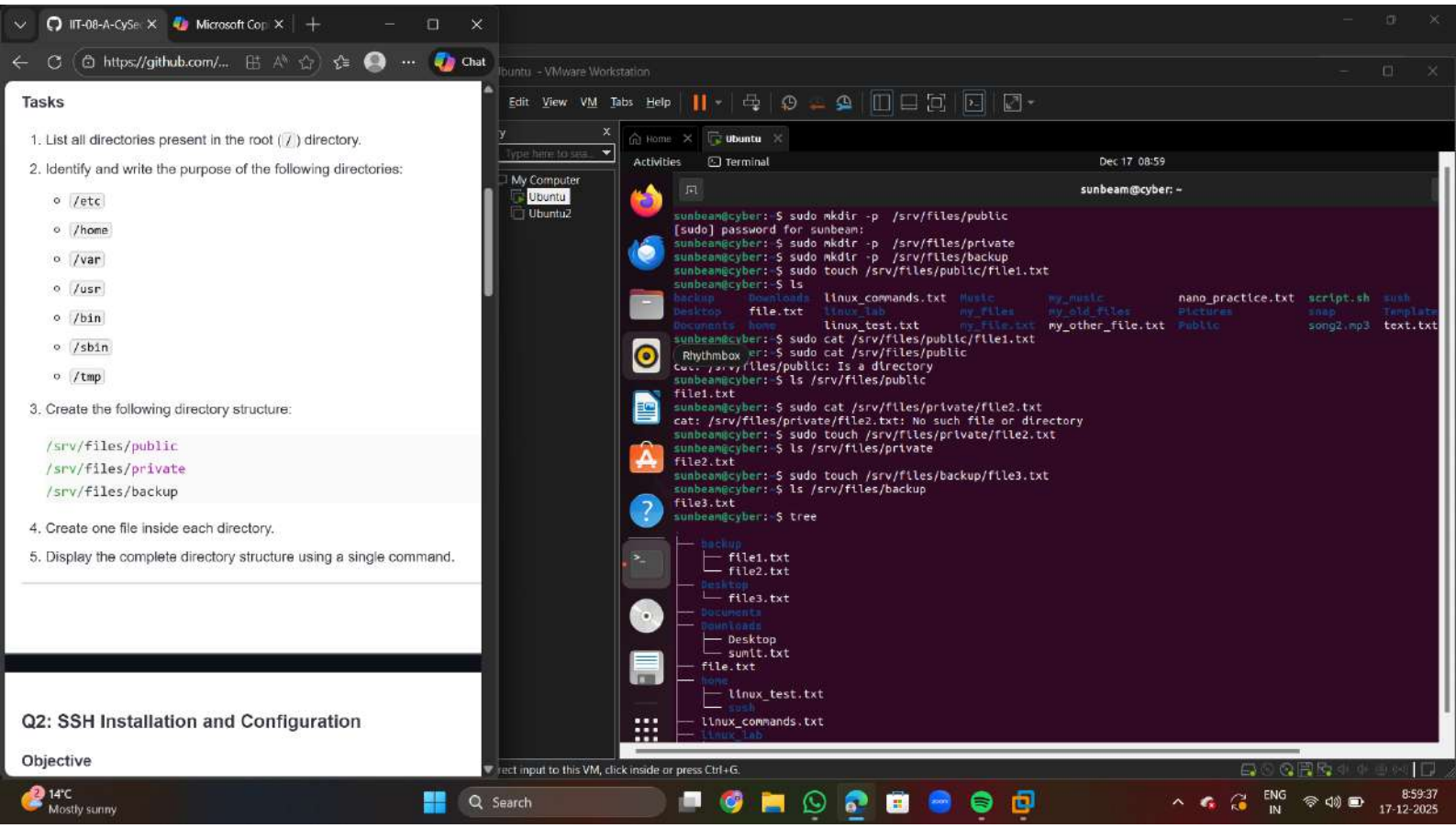
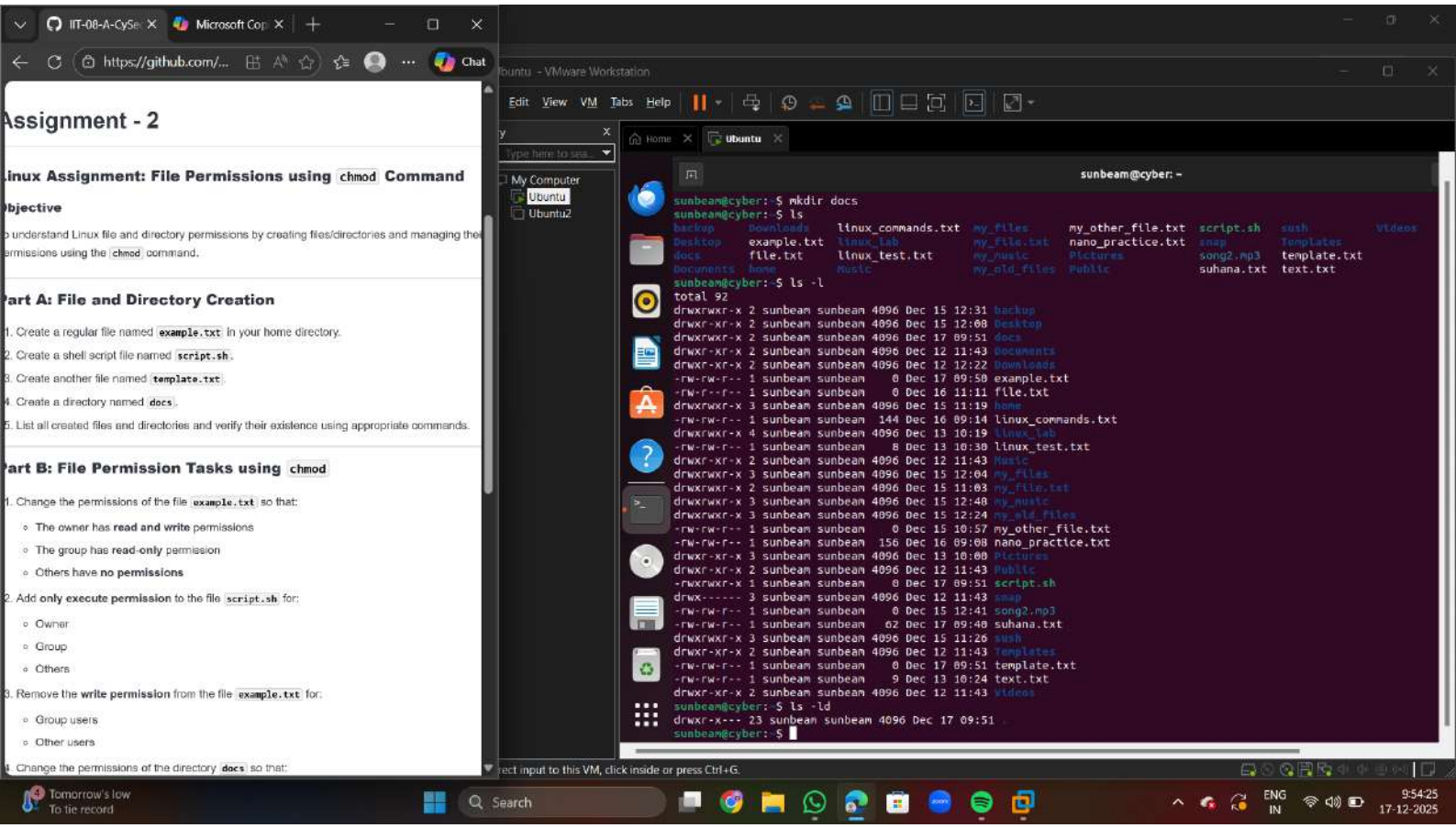

Tasks
1. List all directories present in the root (/) directory.
2. Identify and write the purpose of the following directories:
/etc
/home
/var
/usr
/bin
/sbin
/tmp
3. Create the following directory structure:
/srv/files/public
/srv/files/private
/srv/files/backup
4. Create one file inside each directory.
5. Display the complete directory structure using a single command.
Q2: SSH Installation and Configuration
Objective
Ubuntu - VMware Workstation
Edit View VM Tabs Help
Home
Ubuntu
Activities
Terminal
Dec 17 08:59
sunbeam@cyber: ~
sunbeam@cyber:~$ sudo mkdir -p /srv/files/public
[sudo] password for sunbeam:
sunbeam@cyber:~$ sudo mkdir -p /srv/files/private
sunbeam@cyber:~$ sudo mkdir -p /srv/files/backup
sunbeam@cyber:~$ sudo touch /srv/files/public/file1.txt
sunbeam@cyber:~$ ls
backup Downloads linux_commands.txt Music my_music nano_practice.txt script.sh sush
Desktop file.txt linux_lab my_files my_old_files Pictures snap Templates
Documents home linux_test.txt my_file.txt my_other_file.txt Public song2.mp3 text.txt
sunbeam@cyber:~$ sudo cat /srv/files/public/file1.txt
Rhythmbox
sunbeam@cyber:~$ sudo cat /srv/files/public
cat: /srv/files/public: Is a directory
sunbeam@cyber:~$ ls /srv/files/public
file1.txt
sunbeam@cyber:~$ sudo cat /srv/files/private/file2.txt
cat: /srv/files/private/file2.txt: No such file or directory
sunbeam@cyber:~$ sudo touch /srv/files/private/file2.txt
sunbeam@cyber:~$ ls /srv/files/private
file2.txt
sunbeam@cyber:~$ sudo touch /srv/files/backup/file3.txt
sunbeam@cyber:~$ ls /srv/files/backup
file3.txt
sunbeam@cyber:~$ tree
backup
file1.txt
file2.txt
Desktop
file3.txt
Documents
Downloads
Desktop
sumit.txt
file.txt
home
linux_test.txt
sush
linux_commands.txt
linux_lab
My Computer
Ubuntu
Ubuntu2
14°C
Mostly sunny
Search
ENG
IN
8:59:37
17-12-2025



Assignment - 2

Linux Assignment: File Permissions using `chmod` Command

Objective

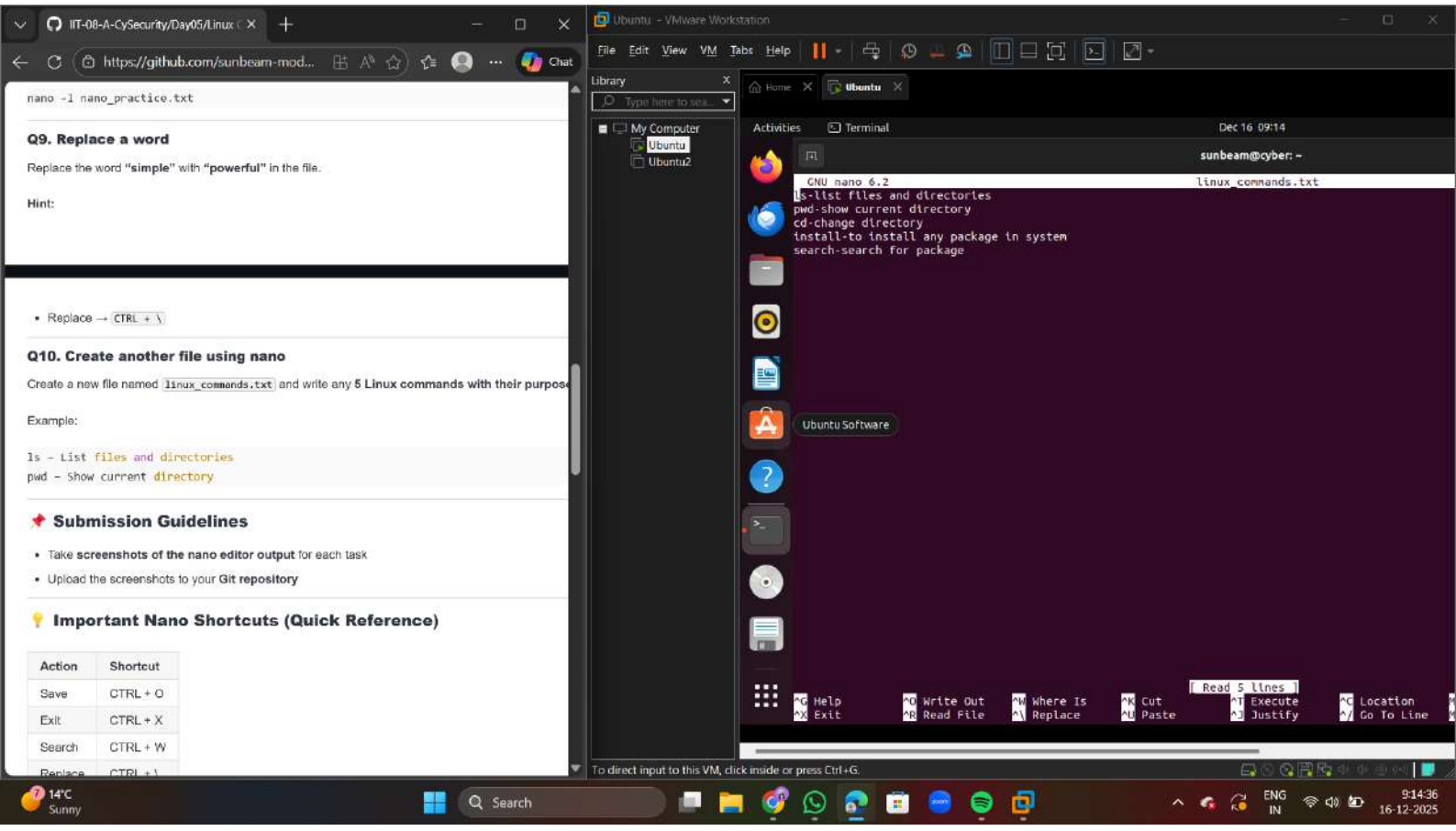
To understand Linux file and directory permissions by creating files/directories and managing their permissions using the `chmod` command.

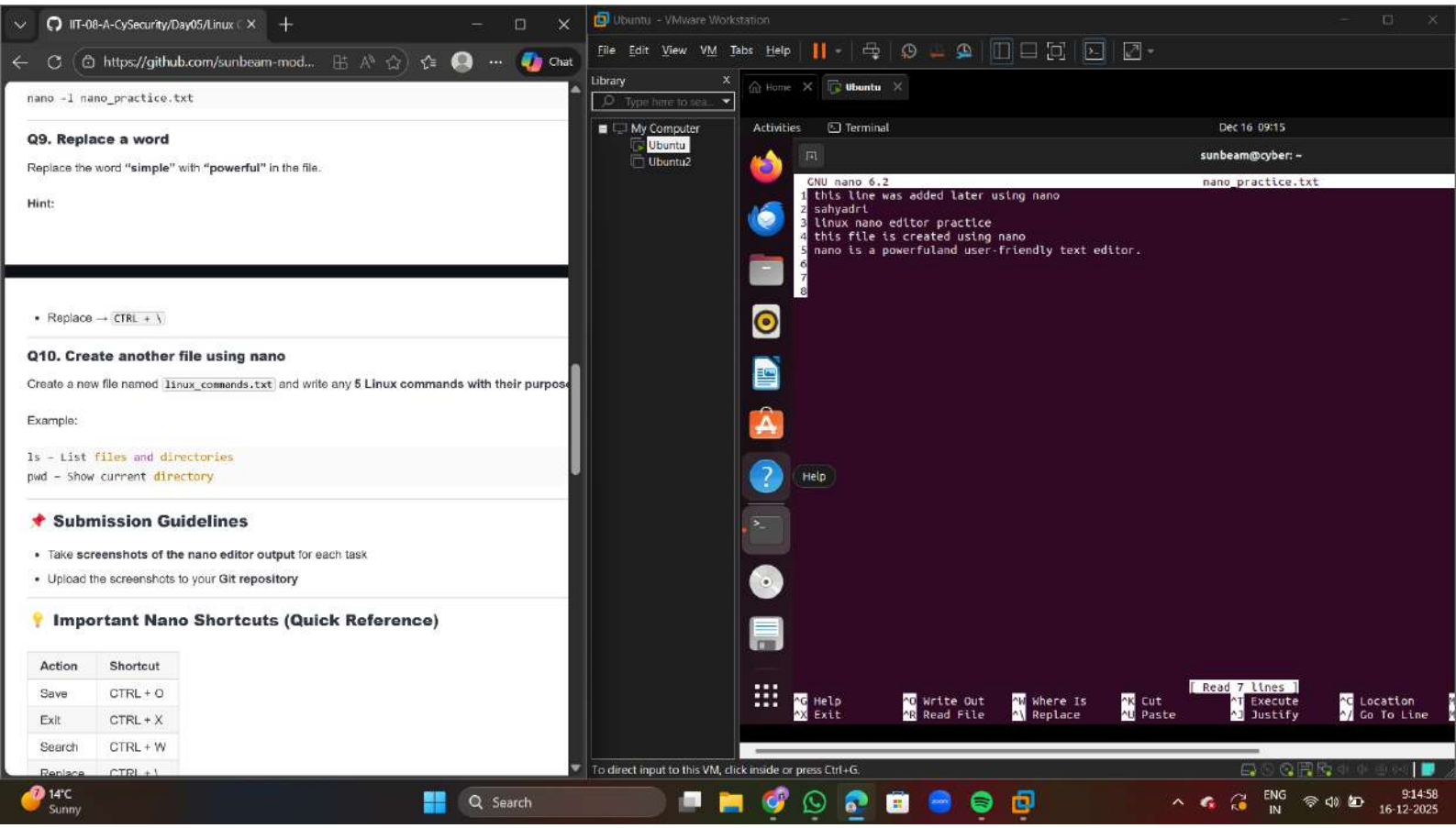
Part A: File and Directory Creation

1. Create a regular file named `example.txt` in your home directory.
2. Create a shell script file named `script.sh`.
3. Create another file named `template.txt`.
4. Create a directory named `docs`.
5. List all created files and directories and verify their existence using appropriate commands.

Part B: File Permission Tasks using `chmod`

1. Change the permissions of the file `example.txt` so that:
   - The owner has **read and write** permissions
   - The group has **read-only** permission
   - Others have **no permissions**
2. Add **only execute permission** to the file `script.sh` for:
   - Owner
   - Group
   - Others
3. Remove the **write permission** from the file `example.txt` for:
   - Group users
   - Other users
4. Change the permissions of the directory `docs` so that:


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sunbeam-mod...
Chat
nano -l nano_practice.txt
Q9. Replace a word
Replace the word "simple" with "powerful" in the file.
Hint:
Replace → CTRL + \
Q10. Create another file using nano
Create a new file named linux_commands.txt and write any 5 Linux commands with their purpos
Example:
ls - List files and directories
pwd - Show current directory
Submission Guidelines
Take screenshots of the nano editor output for each task
Upload the screenshots to your Git repository
Important Nano Shortcuts (Quick Reference)
Action
Shortcut
Save
CTRL + O
Exit
CTRL + X
Search
CTRL + W
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 16 09:14
sunbeam@cyber: ~
GNU nano 6.2
linux_commands.txt
ls-list files and directories
pwd-show current directory
cd-change directory
install-to install any package in system
search-search for package
Ubuntu Software
[Read 5 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
To direct input to this VM, click inside or press Ctrl+G.
14°C
Sunny
Search
ENG
IN
9:14:36
16-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sunbeam-mod...
Chat
nano -l nano_practice.txt
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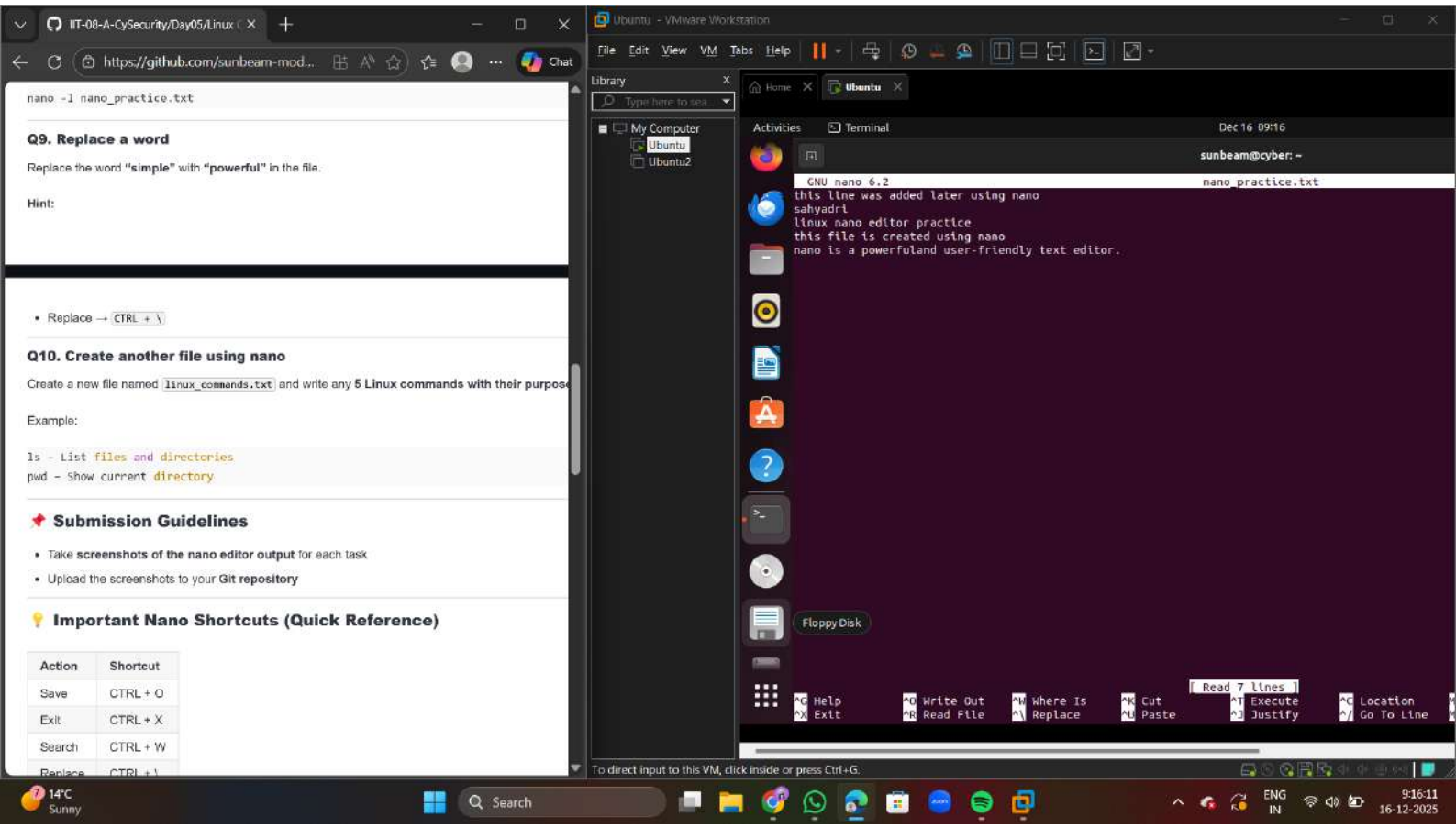
Action
Shortcut
Save
CTRL + O
Exit
CTRL + X
Search
CTRL + W
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 16 09:15
sunbeam@cyber: ~
GNU nano 6.2
nano_practice.txt
this line was added later using nano
sahyadri
linux nano editor practice
this file is created using nano
nano is a powerfuland user-friendly text editor.
Help
[Read 7 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
To direct input to this VM, click inside or press Ctrl+G.
14°C
Sunny
Search
ENG
IN
9:14:58
16-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sunbeam-mod...
Chat
nano -l nano_practice.txt
Q9. Replace a word
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Hint:
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ls - List files and directories
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Submission Guidelines
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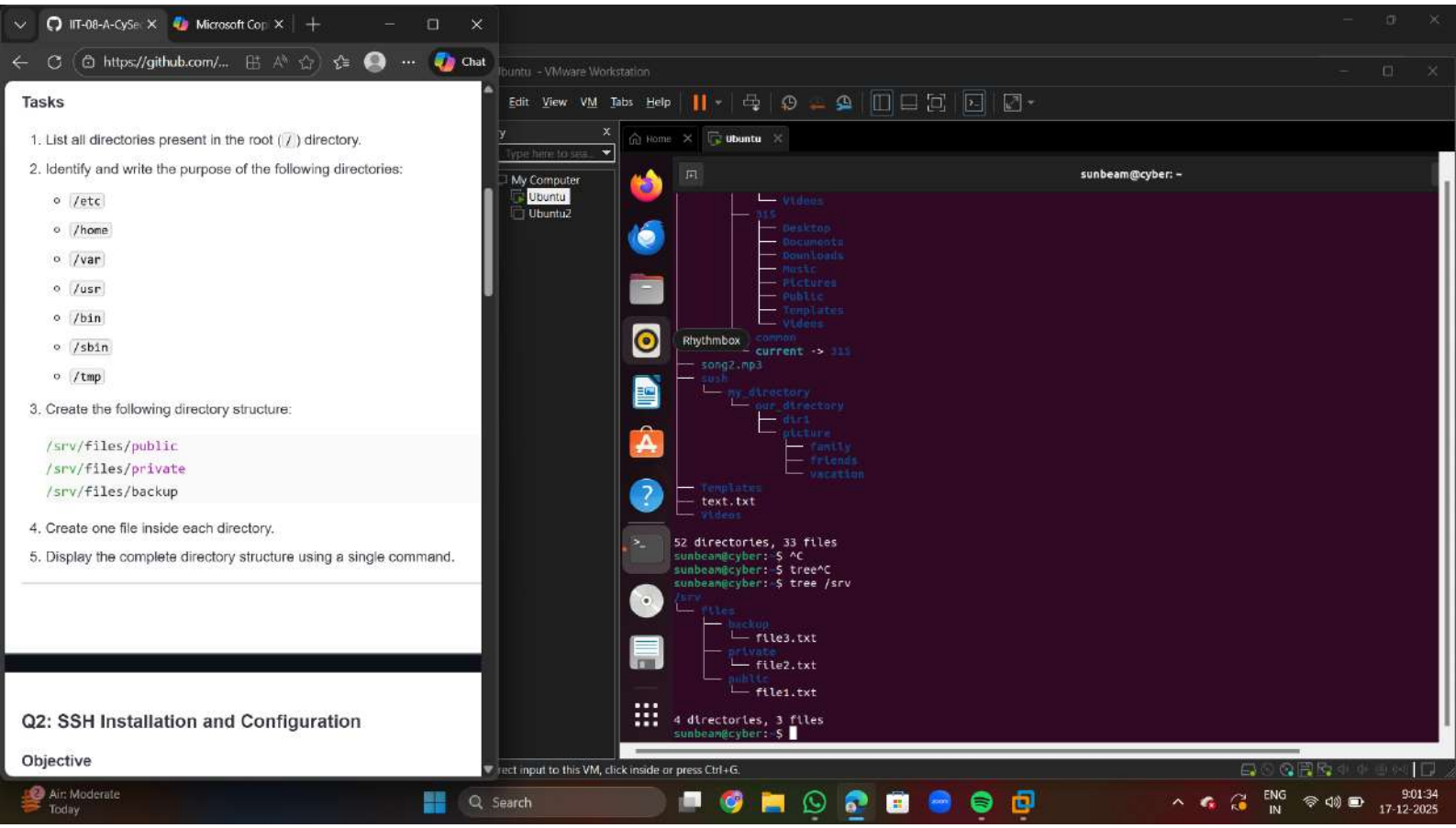
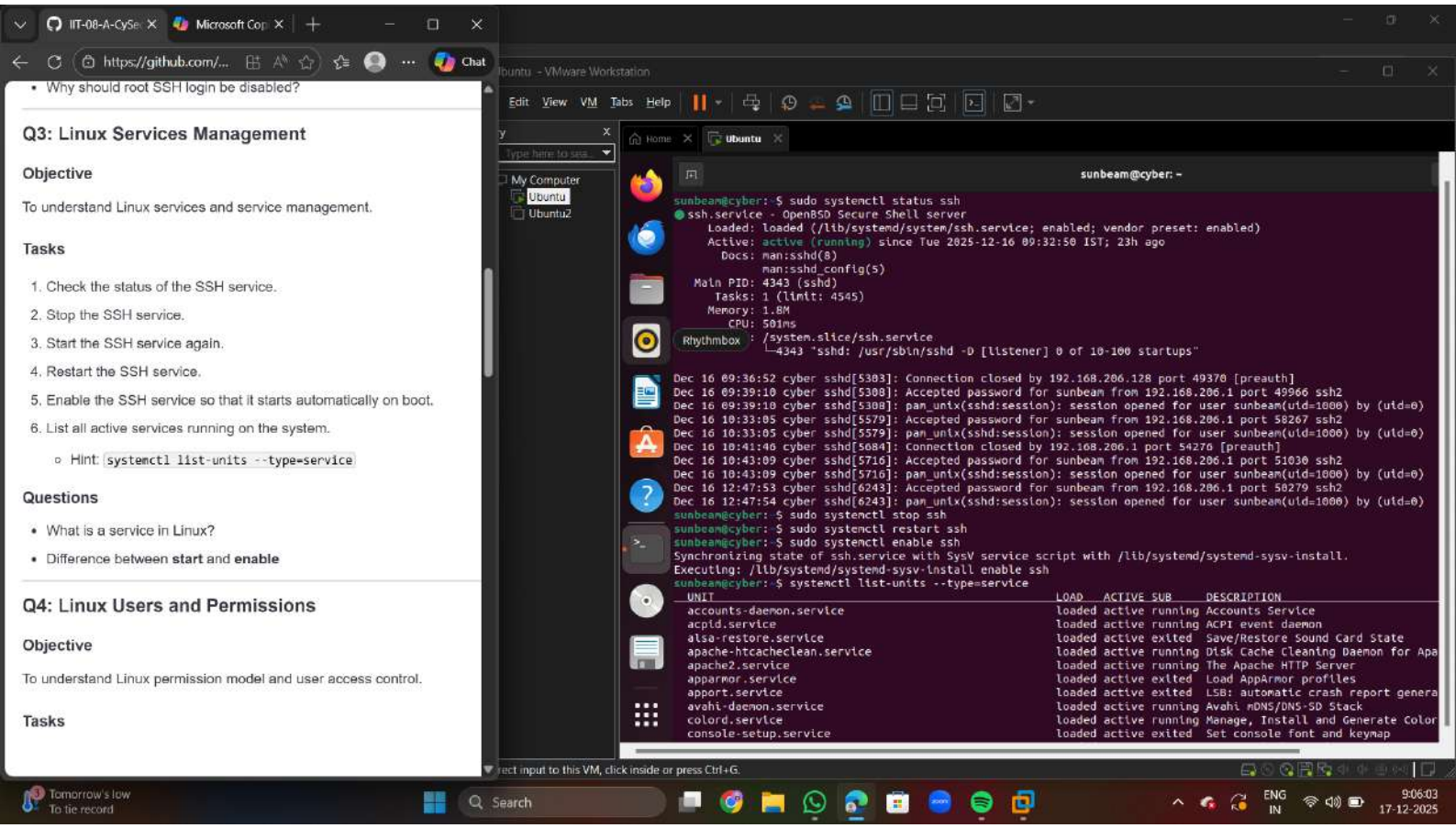
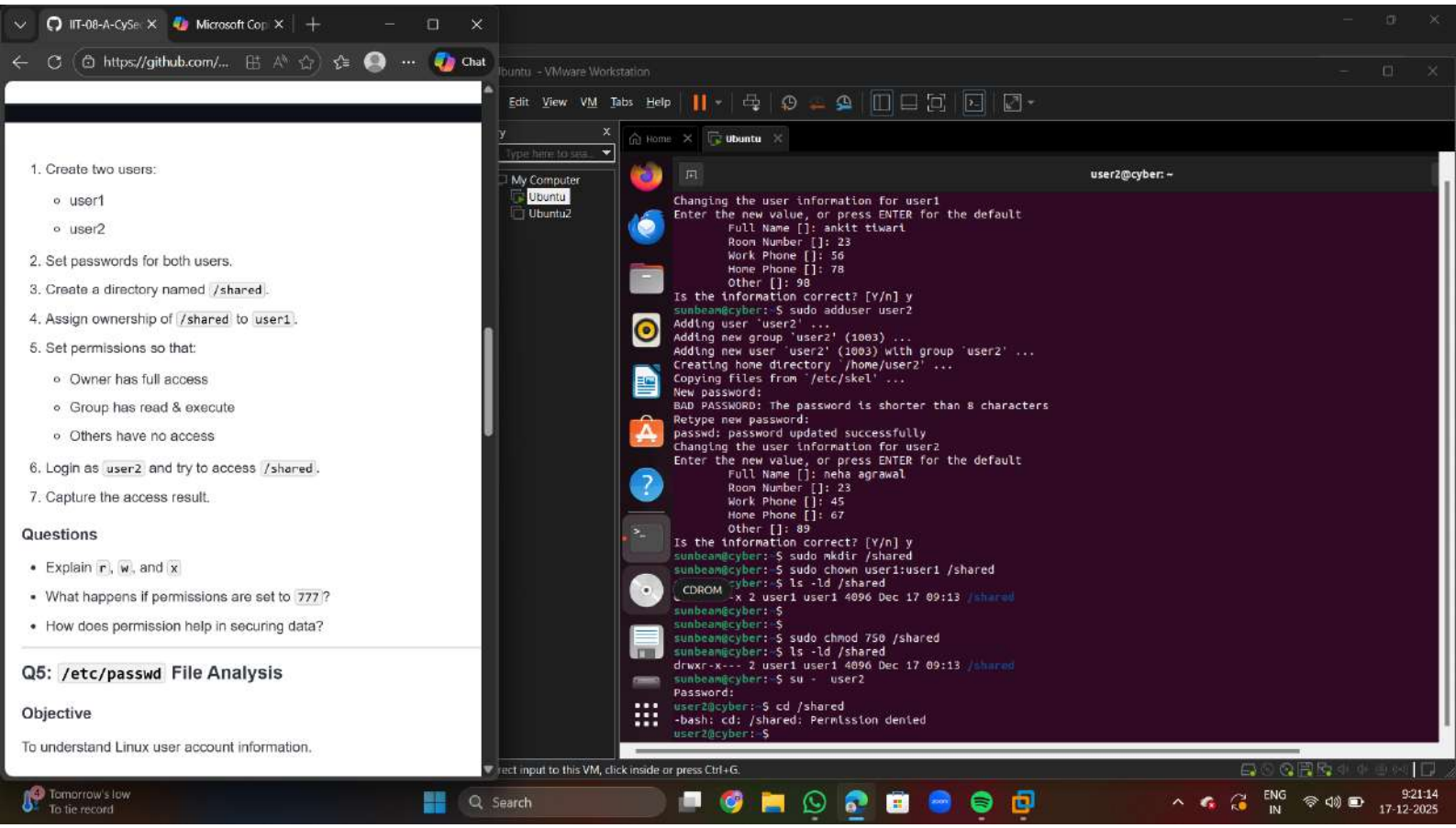
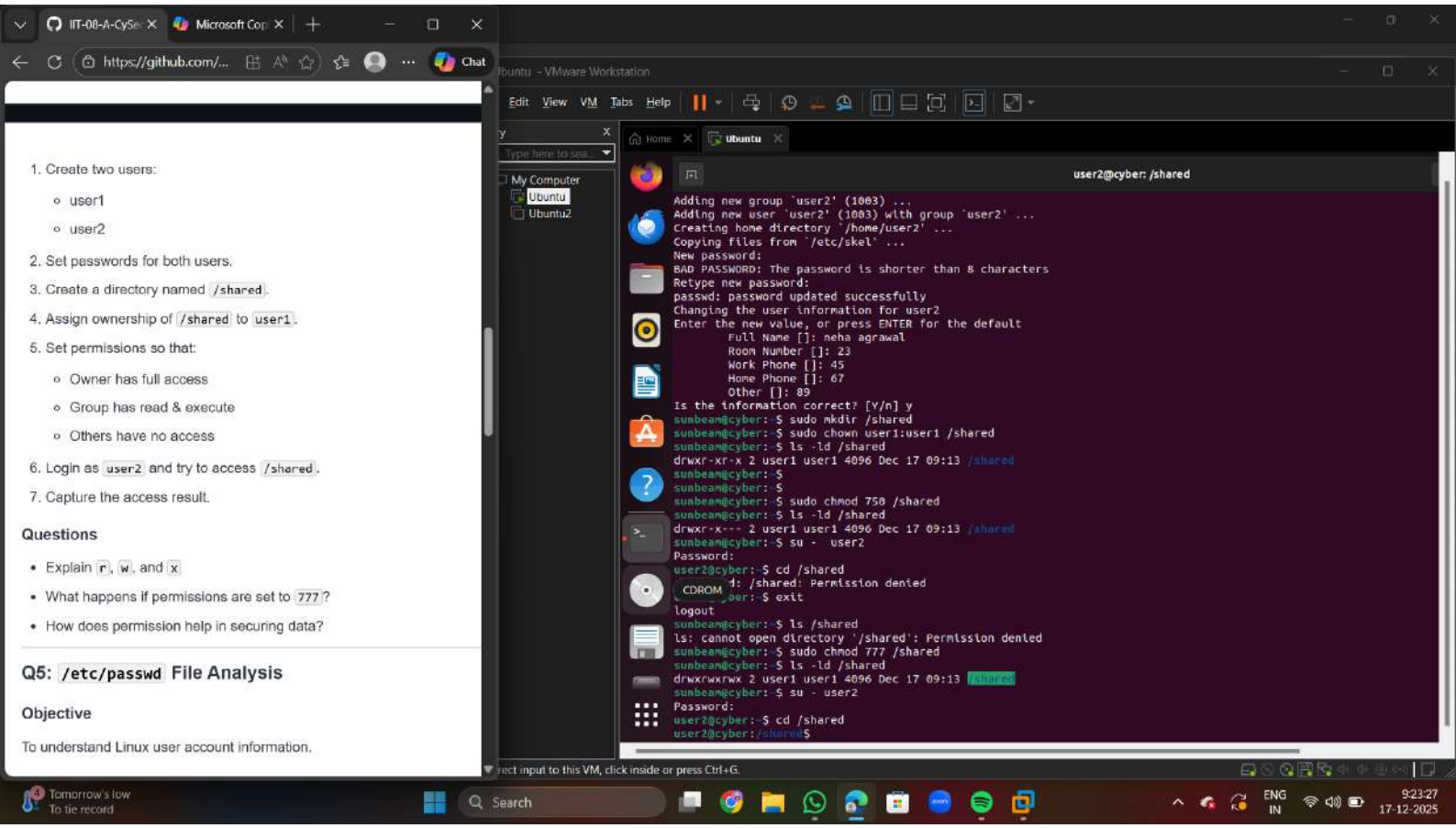
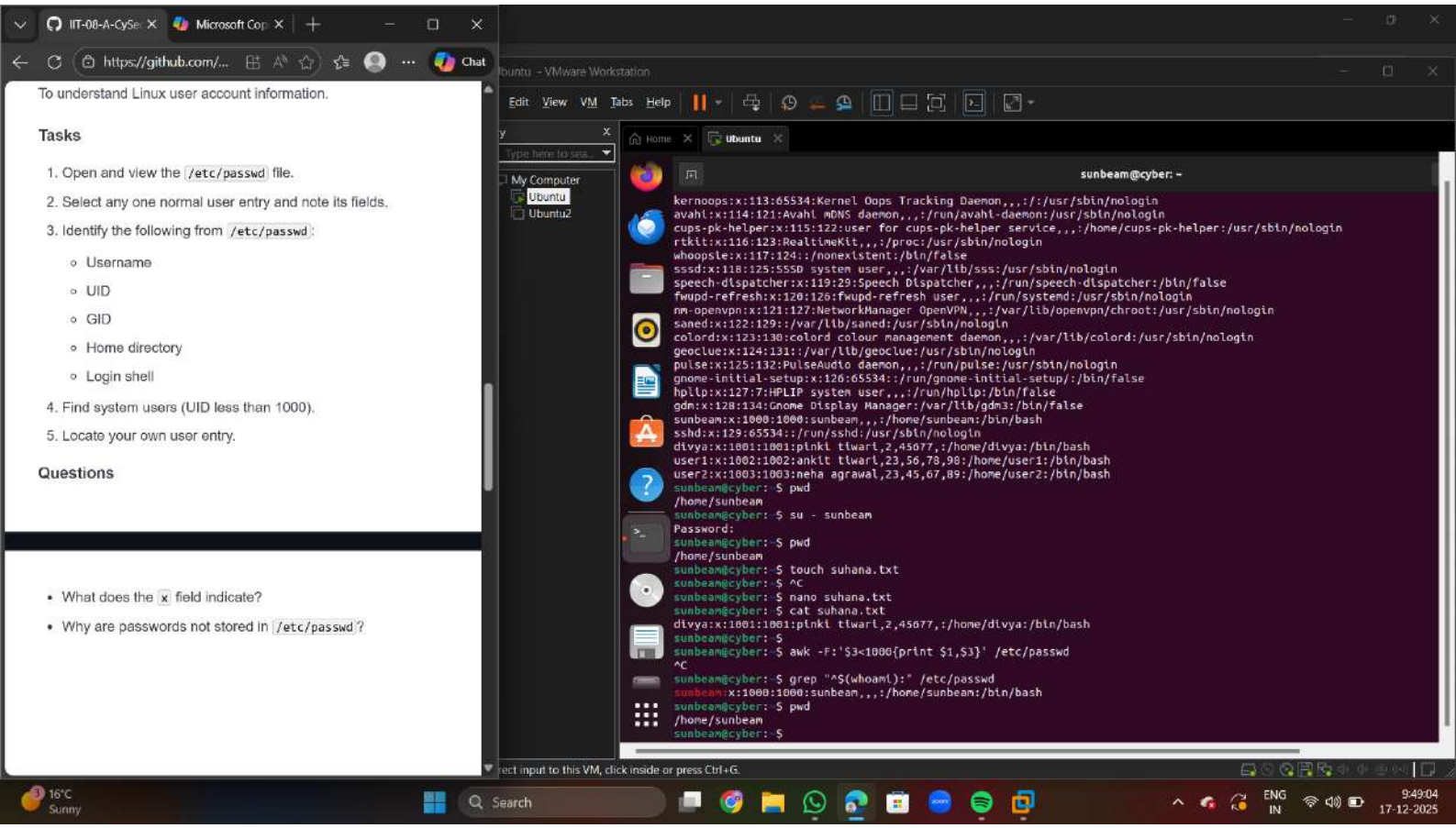
Important Nano Shortcuts (Quick Reference)
Action
Shortcut
Save
CTRL + O
Exit
CTRL + X
Search
CTRL + W
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 16 09:16
sunbeam@cyber: ~
GNU nano 6.2
nano_practice.txt
this line was added later using nano
sahyadri
linux nano editor practice
this file is created using nano
nano is a powerfuland user-friendly text editor.
Floppy Disk
[Read 7 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
To direct input to this VM, click inside or press Ctrl+G.
14°C
Sunny
Search
ENG
IN
9:16:11
16-12-2025

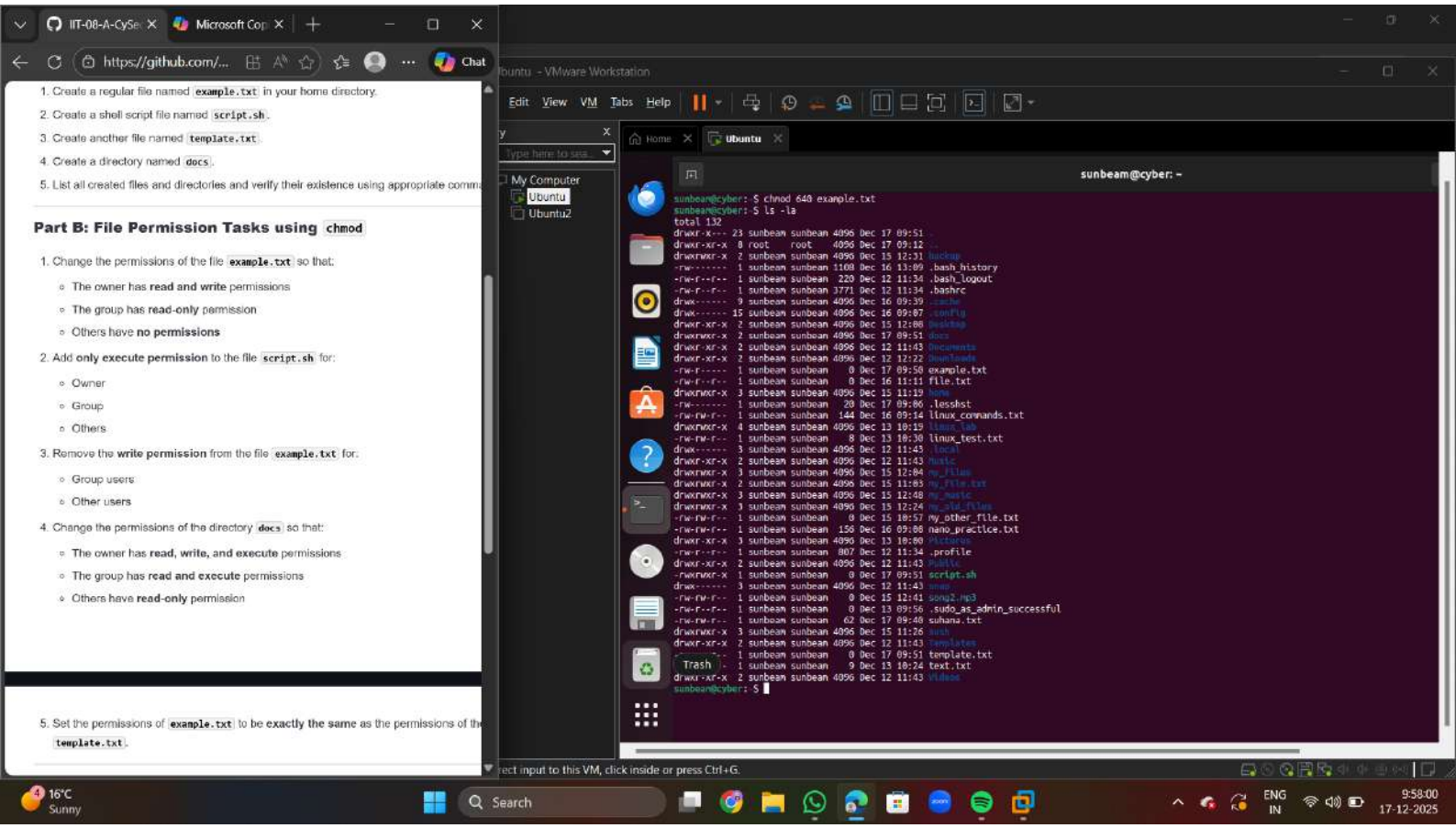

Tasks
1. List all directories present in the root (/) directory.
2. Identify and write the purpose of the following directories:
/etc
/home
/var
/usr
/bin
/sbin
/tmp
3. Create the following directory structure:
/srv/files/public
/srv/files/private
/srv/files/backup
4. Create one file inside each directory.
5. Display the complete directory structure using a single command.
Q2: SSH Installation and Configuration
Objective
Ubuntu - VMware Workstation
Edit View VM Tabs Help
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
sunbeam@cyber: ~
Rhythmbox
52 directories, 33 files
sunbeam@cyber:~$ ^C
sunbeam@cyber:~$ tree^C
sunbeam@cyber:~$ tree /srv
/srv
files
backup
file3.txt
private
file2.txt
public
file1.txt
4 directories, 3 files
sunbeam@cyber:~$
Search
ENG
IN
9:01:34
17-12-2025

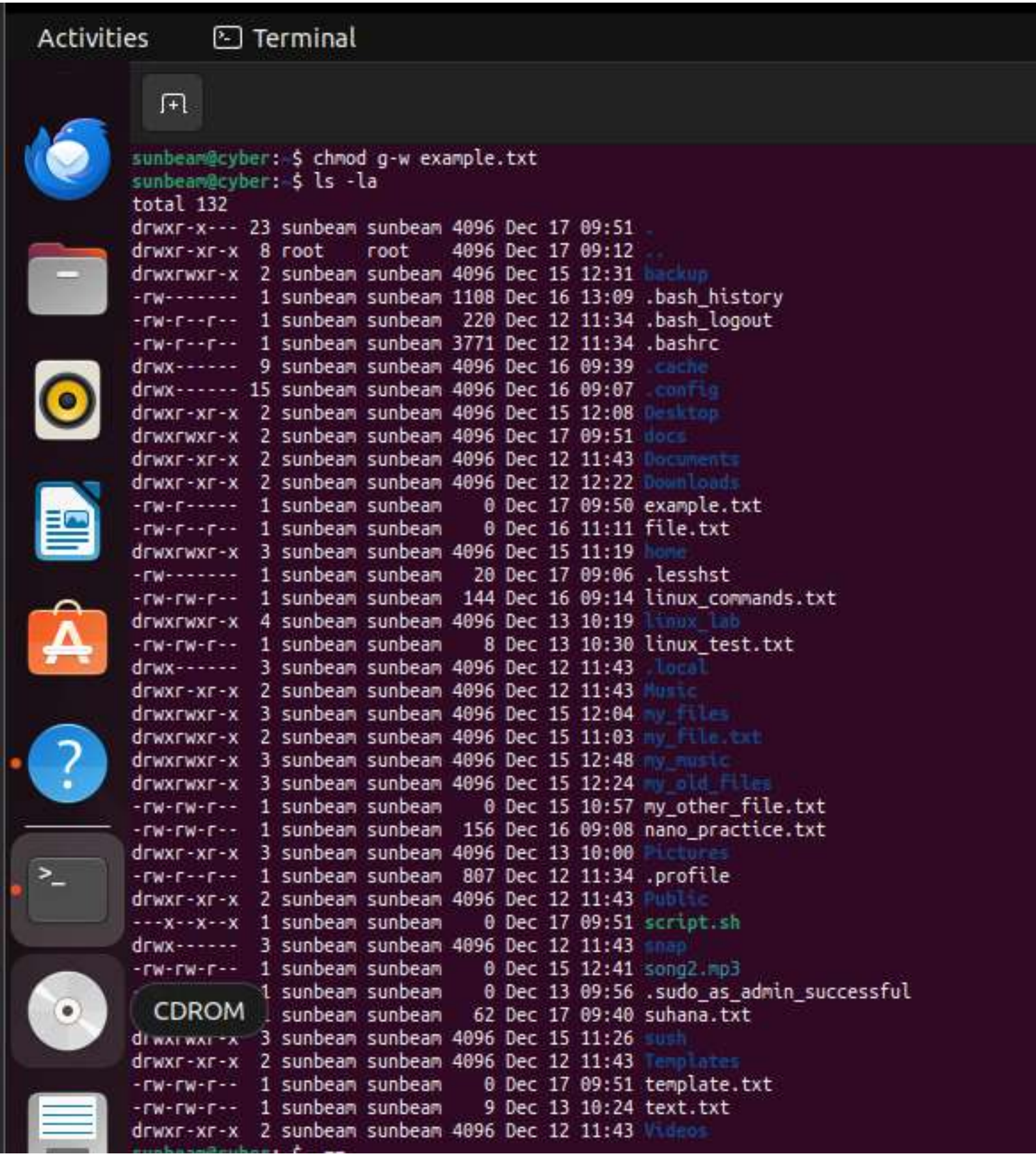

IIT-08-A-CySec
Microsoft Copi
https://github.com/...
Chat
Why should root SSH login be disabled?
Q3: Linux Services Management
Objective
To understand Linux services and service management.
Tasks
1. Check the status of the SSH service.
2. Stop the SSH service.
3. Start the SSH service again.
4. Restart the SSH service.
5. Enable the SSH service so that it starts automatically on boot.
6. List all active services running on the system.
Hint: systemctl list-units --type=service
Questions
What is a service in Linux?
Difference between start and enable
Q4: Linux Users and Permissions
Objective
To understand Linux permission model and user access control.
Tasks
Ubuntu - VMware Workstation
Edit View VM Tabs Help
Home
Ubuntu
My Computer
Ubuntu
Ubuntu2
sunbeam@cyber: ~
sunbeam@cyber:~$ sudo systemctl status ssh
ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2025-12-16 09:32:50 IST; 23h ago
Docs: man:sshd(8)
man:sshd_config(5)
Main PID: 4343 (sshd)
Tasks: 1 (limit: 4545)
Memory: 1.8M
CPU: 501ms
CGroup: /system.slice/ssh.service
└─4343 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Rhythmbox
Dec 16 09:36:52 cyber sshd[5303]: Connection closed by 192.168.206.128 port 49370 [preauth]
Dec 16 09:39:10 cyber sshd[5308]: Accepted password for sunbeam from 192.168.206.1 port 49966 ssh2
Dec 16 09:39:10 cyber sshd[5308]: pam_unix(sshd:session): session opened for user sunbeam(uid=1000) by (uid=0)
Dec 16 10:33:05 cyber sshd[5579]: Accepted password for sunbeam from 192.168.206.1 port 58267 ssh2
Dec 16 10:33:05 cyber sshd[5579]: pam_unix(sshd:session): session opened for user sunbeam(uid=1000) by (uid=0)
Dec 16 10:41:46 cyber sshd[5684]: Connection closed by 192.168.206.1 port 54276 [preauth]
Dec 16 10:43:09 cyber sshd[5716]: Accepted password for sunbeam from 192.168.206.1 port 51030 ssh2
Dec 16 10:43:09 cyber sshd[5716]: pam_unix(sshd:session): session opened for user sunbeam(uid=1000) by (uid=0)
Dec 16 12:47:53 cyber sshd[6243]: Accepted password for sunbeam from 192.168.206.1 port 50279 ssh2
Dec 16 12:47:54 cyber sshd[6243]: pam_unix(sshd:session): session opened for user sunbeam(uid=1000) by (uid=0)
sunbeam@cyber:~$ sudo systemctl stop ssh
sunbeam@cyber:~$ sudo systemctl restart ssh
sunbeam@cyber:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable ssh
sunbeam@cyber:~$ systemctl list-units --type=service
UNIT LOAD ACTIVE SUB DESCRIPTION
accounts-daemon.service loaded active running Accounts Service
acpid.service loaded active running ACPI event daemon
alsa-restore.service loaded active exited Save/Restore Sound Card State
apache-htcacheclean.service loaded active running Disk Cache Cleaning Daemon for Apa
apache2.service loaded active running The Apache HTTP Server
apparmor.service loaded active exited Load AppArmor profiles
apport.service loaded active exited LSB: automatic crash report genera
avahi-daemon.service loaded active running Avahi mDNS/DNS-SD Stack
colord.service loaded active running Manage, Install and Generate Color
console-setup.service loaded active exited Set console font and keymap
ject input to this VM, click inside or press Ctrl+G.
Tomorrow's low
To tie record
Search
ENG
IN
9:06:03
17-12-2025


1. Create two users:
user1
user2
2. Set passwords for both users.
3. Create a directory named /shared.
4. Assign ownership of /shared to user1.
5. Set permissions so that:
Owner has full access
Group has read & execute
Others have no access
6. Login as user2 and try to access /shared.
7. Capture the access result.
Questions
Explain r, w, and x
What happens if permissions are set to 777?
How does permission help in securing data?
Q5: /etc/passwd File Analysis
Objective
To understand Linux user account information.
Changing the user information for user1
Enter the new value, or press ENTER for the default
Full Name []: ankit tiwari
Room Number []: 23
Work Phone []: 56
Home Phone []: 78
Other []: 98
Is the information correct? [Y/n] y
sunbeam@cyber:~$ sudo adduser user2
Adding user `user2' ...
Adding new group `user2' (1003) ...
Adding new user `user2' (1003) with group `user2' ...
Creating home directory `/home/user2' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for user2
Enter the new value, or press ENTER for the default
Full Name []: neha agrawal
Room Number []: 23
Work Phone []: 45
Home Phone []: 67
Other []: 89
Is the information correct? [Y/n] y
sunbeam@cyber:~$ sudo mkdir /shared
sunbeam@cyber:~$ sudo chown user1:user1 /shared
sunbeam@cyber:~$ ls -ld /shared
drwxr-x 2 user1 user1 4096 Dec 17 09:13 /shared
sunbeam@cyber:~$
sunbeam@cyber:~$
sunbeam@cyber:~$ sudo chmod 750 /shared
sunbeam@cyber:~$ ls -ld /shared
drwxr-x--- 2 user1 user1 4096 Dec 17 09:13 /shared
sunbeam@cyber:~$ su - user2
Password:
user2@cyber:~$ cd /shared
-bash: cd: /shared: Permission denied
user2@cyber:~$
user2@cyber: ~
Ubuntu - VMware Workstation
Edit View VM Tabs Help
Home
Ubuntu
My Computer
Ubuntu
Ubuntu2
CDROM
Search
ENG
IN
9:21:14
17-12-2025

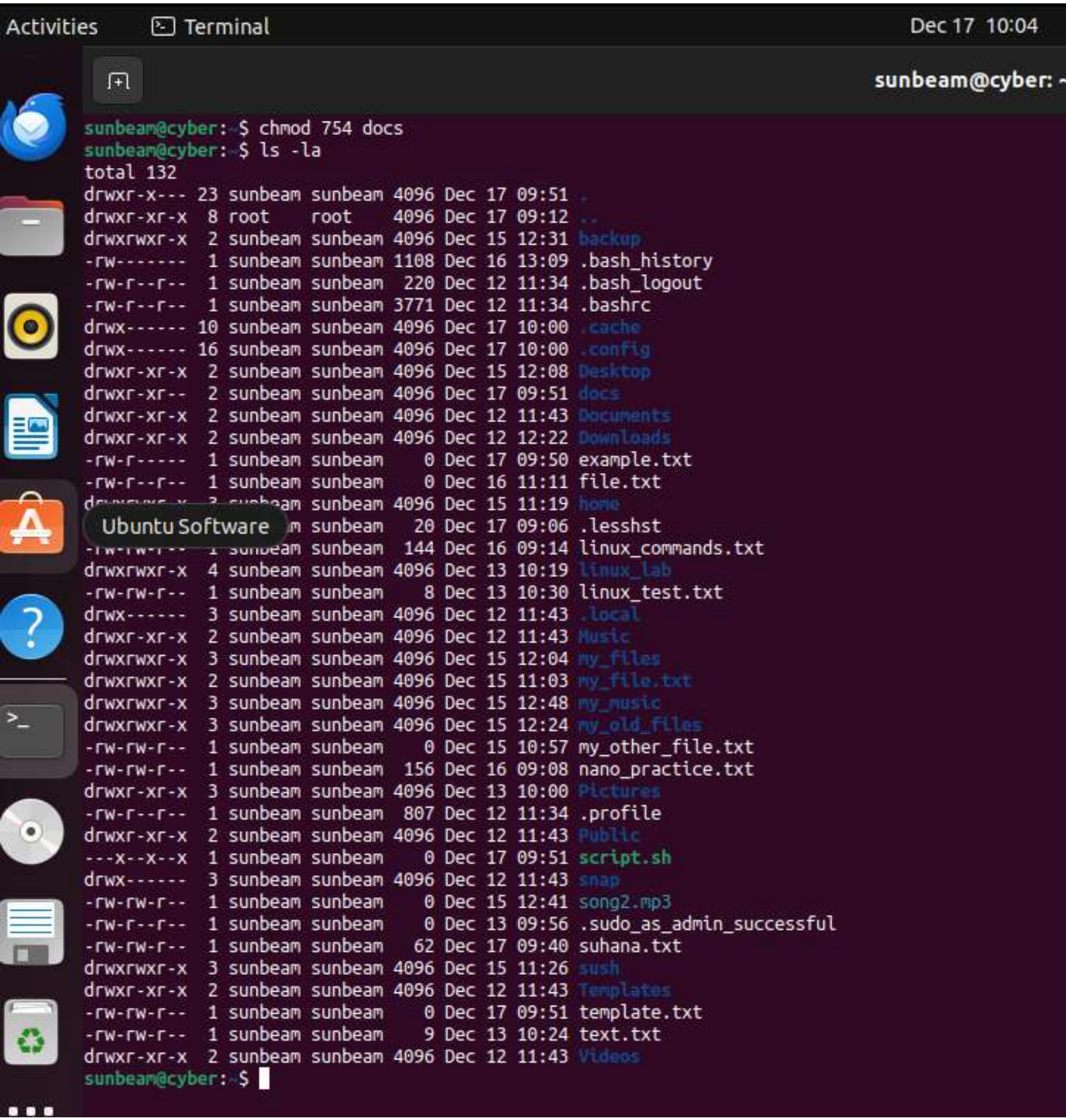

1. Create two users:
user1
user2
2. Set passwords for both users.
3. Create a directory named /shared.
4. Assign ownership of /shared to user1.
5. Set permissions so that:
Owner has full access
Group has read & execute
Others have no access
6. Login as user2 and try to access /shared.
7. Capture the access result.
Questions
Explain r, w, and x
What happens if permissions are set to 777?
How does permission help in securing data?
Q5: /etc/passwd File Analysis
Objective
To understand Linux user account information.
Ubuntu - VMware Workstation
Edit View VM Tabs Help
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
user2@cyber: /shared
Adding new group `user2' (1003) ...
Adding new user `user2' (1003) with group `user2' ...
Creating home directory `/home/user2' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for user2
Enter the new value, or press ENTER for the default
Full Name []: neha agrawal
Room Number []: 23
Work Phone []: 45
Home Phone []: 67
Other []: 89
Is the information correct? [Y/n] y
sunbeam@cyber:~$ sudo mkdir /shared
sunbeam@cyber:~$ sudo chown user1:user1 /shared
sunbeam@cyber:~$ ls -ld /shared
drwxr-xr-x 2 user1 user1 4096 Dec 17 09:13 /shared
sunbeam@cyber:~$
sunbeam@cyber:~$
sunbeam@cyber:~$ sudo chmod 750 /shared
sunbeam@cyber:~$ ls -ld /shared
drwxr-x--- 2 user1 user1 4096 Dec 17 09:13 /shared
sunbeam@cyber:~$ su - user2
Password:
user2@cyber:~$ cd /shared
: /shared: Permission denied
CDROM
exit
logout
sunbeam@cyber:~$ ls /shared
ls: cannot open directory '/shared': Permission denied
sunbeam@cyber:~$ sudo chmod 777 /shared
sunbeam@cyber:~$ ls -ld /shared
drwxrwxrwx 2 user1 user1 4096 Dec 17 09:13 /shared
sunbeam@cyber:~$ su - user2
Password:
user2@cyber:~$ cd /shared
user2@cyber:/shared$
ect input to this VM, click inside or press Ctrl+G.
Tomorrow's low
To tie record
Search
ENG
IN
9:23:27
17-12-2025

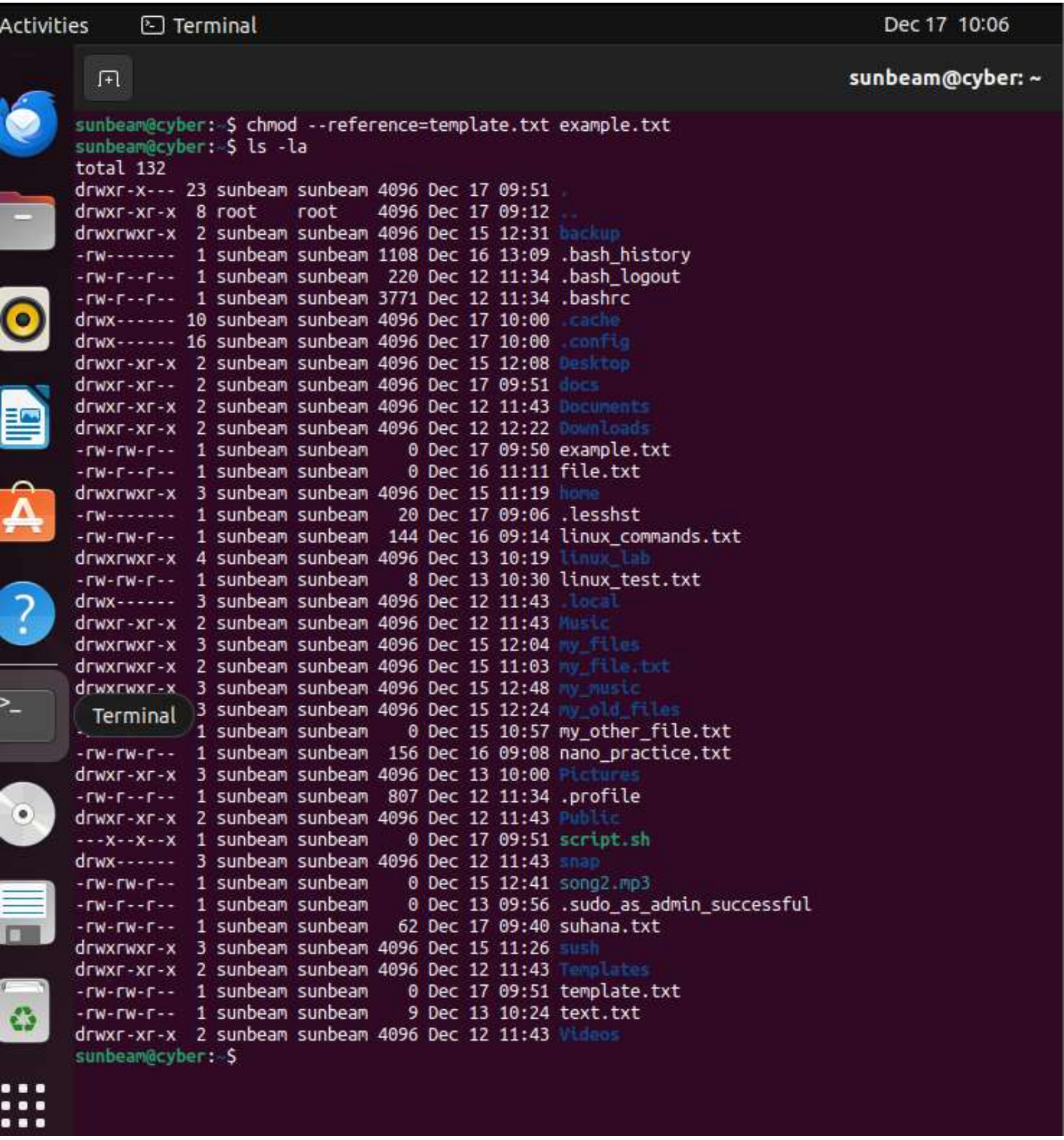

IIT-08-A-CySe
Microsoft Cop
https://github.com/...
Chat
To understand Linux user account information.
Tasks
1. Open and view the /etc/passwd file.
2. Select any one normal user entry and note its fields.
3. Identify the following from /etc/passwd:
Username
UID
GID
Home directory
Login shell
4. Find system users (UID less than 1000).
5. Locate your own user entry.
Questions
What does the x field indicate?
Why are passwords not stored in /etc/passwd?
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Ubuntu
My Computer
Ubuntu
Ubuntu2
sunbeam@cyber: ~
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
sunbeam:x:1000:1000:sunbeam,,,:/home/sunbeam:/bin/bash
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
divya:x:1001:1001:pinki tiwari,2,45677,:/home/divya:/bin/bash
user1:x:1002:1002:ankit tiwari,23,56,78,98:/home/user1:/bin/bash
user2:x:1003:1003:neha agrawal,23,45,67,89:/home/user2:/bin/bash
sunbeam@cyber: $ pwd
/home/sunbeam
sunbeam@cyber: $ su - sunbeam
Password:
sunbeam@cyber:~$ pwd
/home/sunbeam
sunbeam@cyber:~$ touch suhana.txt
sunbeam@cyber:~$ ^C
sunbeam@cyber:~$ nano suhana.txt
sunbeam@cyber: $ cat suhana.txt
divya:x:1001:1001:pinki tiwari,2,45677,:/home/divya:/bin/bash
sunbeam@cyber: $
sunbeam@cyber:~$ awk -F:'$3<1000{print $1,$3}' /etc/passwd
^C
sunbeam@cyber:~$ grep "^$(whoami):" /etc/passwd
sunbeam:x:1000:1000:sunbeam,,,:/home/sunbeam:/bin/bash
sunbeam@cyber:~$ pwd
/home/sunbeam
sunbeam@cyber:~$
ect input to this VM, click inside or press Ctrl+G.
16°C
Sunny
Search
ENG
IN
9:49:04
17-12-2025


IIT-08-A-CySe
Microsoft Cop
https://github.com/...
Chat
1. Create a regular file named example.txt in your home directory.
2. Create a shell script file named script.sh.
3. Create another file named template.txt.
4. Create a directory named docs.
5. List all created files and directories and verify their existence using appropriate comma
Part B: File Permission Tasks using chmod
1. Change the permissions of the file example.txt so that:
The owner has read and write permissions
The group has read-only permission
Others have no permissions
2. Add only execute permission to the file script.sh for:
Owner
Group
Others
3. Remove the write permission from the file example.txt for:
Group users
Other users
4. Change the permissions of the directory docs so that:
The owner has read, write, and execute permissions
The group has read and execute permissions
Others have read-only permission
5. Set the permissions of example.txt to be exactly the same as the permissions of the
template.txt.
Ubuntu - VMware Workstation
Edit View VM Tabs Help
Home
Ubuntu
My Computer
Ubuntu
Ubuntu2
sunbeam@cyber: ~
sunbeam@cyber: $ chmod 640 example.txt
sunbeam@cyber: $ ls -la
total 132
drwxr-x--- 23 sunbeam sunbeam 4096 Dec 17 09:51 .
drwxr-xr-x 8 root root 4096 Dec 17 09:12 ..
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 15 12:31 backup
-rw------- 1 sunbeam sunbeam 1108 Dec 16 13:09 .bash_history
-rw-r--r-- 1 sunbeam sunbeam 220 Dec 12 11:34 .bash_logout
-rw-r--r-- 1 sunbeam sunbeam 3771 Dec 12 11:34 .bashrc
drwx------ 9 sunbeam sunbeam 4096 Dec 16 09:39 .cache
drwx------ 15 sunbeam sunbeam 4096 Dec 16 09:07 .config
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 15 12:00 Desktop
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 17 09:51 docs
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Documents
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 12:22 Downloads
-rw-r----- 1 sunbeam sunbeam 0 Dec 17 09:50 example.txt
-rw-r--r-- 1 sunbeam sunbeam 0 Dec 16 11:11 file.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 11:19 home
-rw------- 1 sunbeam sunbeam 20 Dec 17 09:06 .lesshst
-rw-rw-r-- 1 sunbeam sunbeam 144 Dec 16 09:14 linux_commands.txt
drwxrwxr-x 4 sunbeam sunbeam 4096 Dec 13 10:19 linux_lab
-rw-rw-r-- 1 sunbeam sunbeam 8 Dec 13 10:30 linux_test.txt
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 .local
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Music
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:04 my_files
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 15 11:05 my_file.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:48 my_music
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:24 my_old_files
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 15 10:57 my_other_file.txt
-rw-rw-r-- 1 sunbeam sunbeam 156 Dec 16 09:08 nano_practice.txt
drwxr-xr-x 3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
-rw-r--r-- 1 sunbeam sunbeam 807 Dec 12 11:34 .profile
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Public
-rwxrwxr-x 1 sunbeam sunbeam 0 Dec 17 09:51 script.sh
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 snap
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 15 12:41 song2.mp3
-rw-r--r-- 1 sunbeam sunbeam 0 Dec 13 09:56 .sudo_as_admin_successful
-rw-rw-r-- 1 sunbeam sunbeam 62 Dec 17 09:48 suhana.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 11:26 sush
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Templates
-rw-r--r-- 1 sunbeam sunbeam 0 Dec 17 09:51 template.txt
-rw-rw-r-- 1 sunbeam sunbeam 9 Dec 13 10:24 text.txt
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
sunbeam@cyber: $
Trash
ect input to this VM, click inside or press Ctrl+G.
16°C
Sunny
Search
ENG
IN
9:58:00
17-12-2025




```
sunbeam@cyber: $ chmod g-w example.txt
sunbeam@cyber: $ ls -la
total 132
drwxr-x--- 23 sunbeam sunbeam 4096 Dec 17 09:51 .
drwxr-xr-x  8 root    root    4096 Dec 17 09:12 ..
drwxrwxr-x  2 sunbeam sunbeam 4096 Dec 15 12:31 backup
-rw-------  1 sunbeam sunbeam 1108 Dec 16 13:09 .bash_history
-rw-r--r--  1 sunbeam sunbeam  220 Dec 12 11:34 .bash_logout
-rw-r--r--  1 sunbeam sunbeam 3771 Dec 12 11:34 .bashrc
drwx------  9 sunbeam sunbeam 4096 Dec 16 09:39 .cache
drwx------ 15 sunbeam sunbeam 4096 Dec 16 09:07 .config
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 15 12:08 Desktop
drwxrwxr-x  2 sunbeam sunbeam 4096 Dec 17 09:51 docs
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Documents
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 12:22 Downloads
-rw-r-----  1 sunbeam sunbeam    0 Dec 17 09:50 example.txt
-rw-r--r--  1 sunbeam sunbeam    0 Dec 16 11:11 file.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 11:19 home
-rw-------  1 sunbeam sunbeam   20 Dec 17 09:06 .lesshst
-rw-rw-r--  1 sunbeam sunbeam  144 Dec 16 09:14 linux_commands.txt
drwxrwxr-x  4 sunbeam sunbeam 4096 Dec 13 10:19 linux_lab
-rw-rw-r--  1 sunbeam sunbeam    8 Dec 13 10:30 linux_test.txt
drwx------  3 sunbeam sunbeam 4096 Dec 12 11:43 .local
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Music
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:04 my_files
drwxrwxr-x  2 sunbeam sunbeam 4096 Dec 15 11:03 my_file.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:48 my_music
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:24 my_old_files
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 15 10:57 my_other_file.txt
-rw-rw-r--  1 sunbeam sunbeam  156 Dec 16 09:08 nano_practice.txt
drwxr-xr-x  3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
-rw-r--r--  1 sunbeam sunbeam  807 Dec 12 11:34 .profile
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Public
---x--x--x  1 sunbeam sunbeam    0 Dec 17 09:51 script.sh
drwx------  3 sunbeam sunbeam 4096 Dec 12 11:43 snap
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 15 12:41 song2.mp3
            1 sunbeam sunbeam    0 Dec 13 09:56 .sudo_as_admin_successful
            1 sunbeam sunbeam   62 Dec 17 09:40 suhana.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 11:26 sush
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Templates
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 17 09:51 template.txt
-rw-rw-r--  1 sunbeam sunbeam    9 Dec 13 10:24 text.txt
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
```


Activities
Terminal
Dec 17 10:04
sunbeam@cyber: ~
Ubuntu Software
sunbeam@cyber: $ chmod 754 docs
sunbeam@cyber: $ ls -la
total 132
drwxr-x--- 23 sunbeam sunbeam 4096 Dec 17 09:51 .
drwxr-xr-x 8 root root 4096 Dec 17 09:12 ..
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 15 12:31 backup
-rw------- 1 sunbeam sunbeam 1108 Dec 16 13:09 .bash_history
-rw-r--r-- 1 sunbeam sunbeam 220 Dec 12 11:34 .bash_logout
-rw-r--r-- 1 sunbeam sunbeam 3771 Dec 12 11:34 .bashrc
drwx------ 10 sunbeam sunbeam 4096 Dec 17 10:00 .cache
drwx------ 16 sunbeam sunbeam 4096 Dec 17 10:00 .config
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 15 12:08 Desktop
drwxr-xr-- 2 sunbeam sunbeam 4096 Dec 17 09:51 docs
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Documents
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 12:22 Downloads
-rw-r----- 1 sunbeam sunbeam 0 Dec 17 09:50 example.txt
-rw-r--r-- 1 sunbeam sunbeam 0 Dec 16 11:11 file.txt
sunbeam 4096 Dec 15 11:19 home
sunbeam 20 Dec 17 09:06 .lesshst
sunbeam 144 Dec 16 09:14 linux_commands.txt
drwxrwxr-x 4 sunbeam sunbeam 4096 Dec 13 10:19 linux_lab
-rw-rw-r-- 1 sunbeam sunbeam 8 Dec 13 10:30 linux_test.txt
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 .local
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Music
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:04 my_files
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 15 11:03 my_file.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:48 my_music
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 12:24 my_old_files
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 15 10:57 my_other_file.txt
-rw-rw-r-- 1 sunbeam sunbeam 156 Dec 16 09:08 nano_practice.txt
drwxr-xr-x 3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
-rw-r--r-- 1 sunbeam sunbeam 807 Dec 12 11:34 .profile
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Public
---x--x--x 1 sunbeam sunbeam 0 Dec 17 09:51 script.sh
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 snap
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 15 12:41 song2.mp3
-rw-r--r-- 1 sunbeam sunbeam 0 Dec 13 09:56 .sudo_as_admin_successful
-rw-rw-r-- 1 sunbeam sunbeam 62 Dec 17 09:40 suhana.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 11:26 sush
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Templates
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 17 09:51 template.txt
-rw-rw-r-- 1 sunbeam sunbeam 9 Dec 13 10:24 text.txt
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
sunbeam@cyber: $




```
sunbeam@cyber:~$ chmod --reference=template.txt example.txt
sunbeam@cyber:~$ ls -la
total 132
drwxr-x--- 23 sunbeam sunbeam 4096 Dec 17 09:51 .
drwxr-xr-x  8 root    root    4096 Dec 17 09:12 ..
drwxrwxr-x  2 sunbeam sunbeam 4096 Dec 15 12:31 backup
-rw-------  1 sunbeam sunbeam 1108 Dec 16 13:09 .bash_history
-rw-r--r--  1 sunbeam sunbeam  220 Dec 12 11:34 .bash_logout
-rw-r--r--  1 sunbeam sunbeam 3771 Dec 12 11:34 .bashrc
drwx------ 10 sunbeam sunbeam 4096 Dec 17 10:00 .cache
drwx------ 16 sunbeam sunbeam 4096 Dec 17 10:00 .config
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 15 12:08 Desktop
drwxr-xr--  2 sunbeam sunbeam 4096 Dec 17 09:51 docs
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Documents
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 12:22 Downloads
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 17 09:50 example.txt
-rw-r--r--  1 sunbeam sunbeam    0 Dec 16 11:11 file.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 11:19 home
-rw-------  1 sunbeam sunbeam   20 Dec 17 09:06 .lesshst
-rw-rw-r--  1 sunbeam sunbeam  144 Dec 16 09:14 linux_commands.txt
drwxrwxr-x  4 sunbeam sunbeam 4096 Dec 13 10:19 linux_lab
-rw-rw-r--  1 sunbeam sunbeam    8 Dec 13 10:30 linux_test.txt
drwx------  3 sunbeam sunbeam 4096 Dec 12 11:43 .local
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Music
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:04 my_files
drwxrwxr-x  2 sunbeam sunbeam 4096 Dec 15 11:03 my_file.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:48 my_music
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 12:24 my_old_files
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 15 10:57 my_other_file.txt
-rw-rw-r--  1 sunbeam sunbeam  156 Dec 16 09:08 nano_practice.txt
drwxr-xr-x  3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
-rw-r--r--  1 sunbeam sunbeam  807 Dec 12 11:34 .profile
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Public
---x--x--x  1 sunbeam sunbeam    0 Dec 17 09:51 script.sh
drwx------  3 sunbeam sunbeam 4096 Dec 12 11:43 snap
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 15 12:41 song2.mp3
-rw-r--r--  1 sunbeam sunbeam    0 Dec 13 09:56 .sudo_as_admin_successful
-rw-rw-r--  1 sunbeam sunbeam   62 Dec 17 09:40 suhana.txt
drwxrwxr-x  3 sunbeam sunbeam 4096 Dec 15 11:26 sush
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Templates
-rw-rw-r--  1 sunbeam sunbeam    0 Dec 17 09:51 template.txt
-rw-rw-r--  1 sunbeam sunbeam    9 Dec 13 10:24 text.txt
drwxr-xr-x  2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
sunbeam@cyber:~$
```