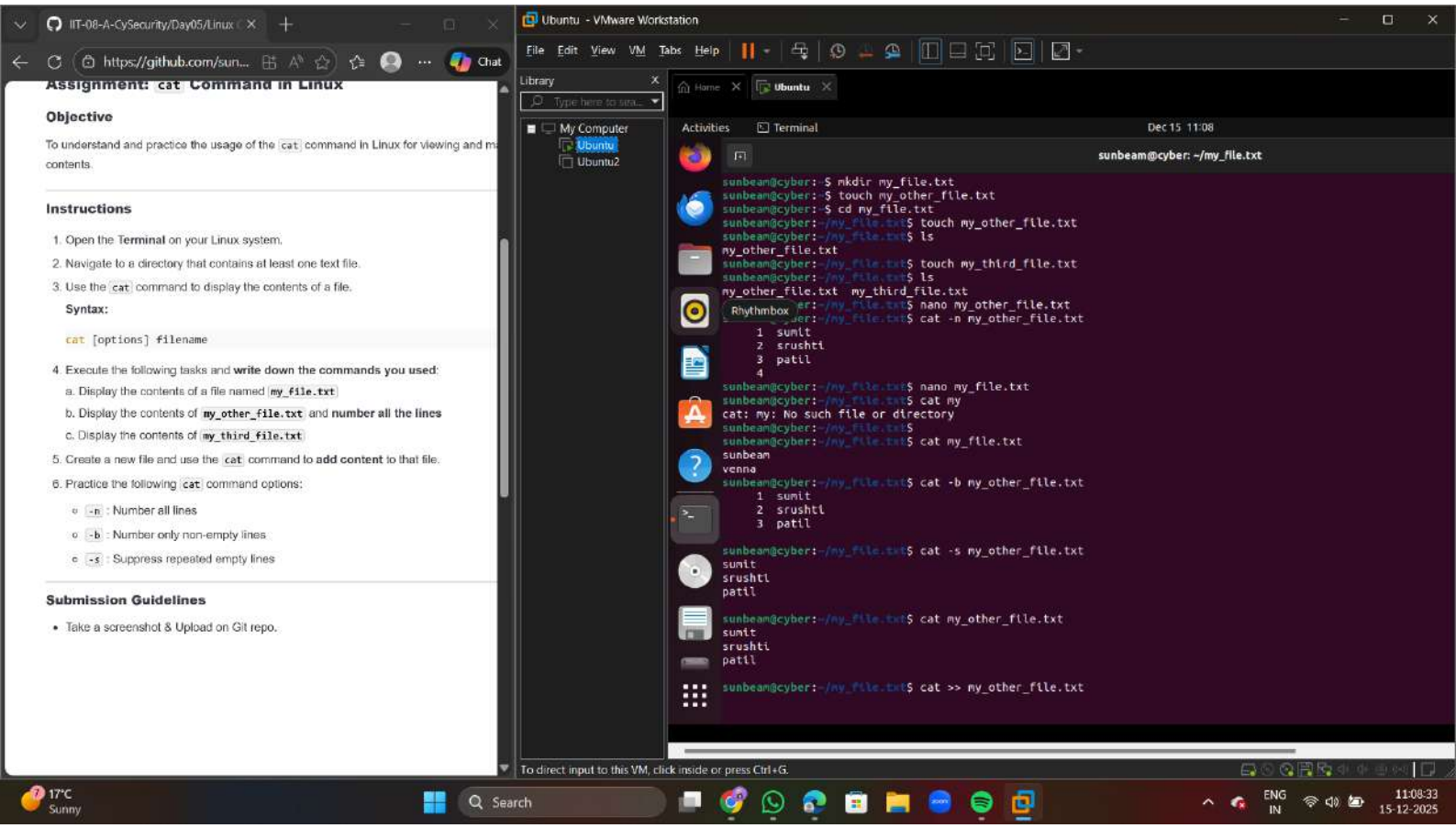
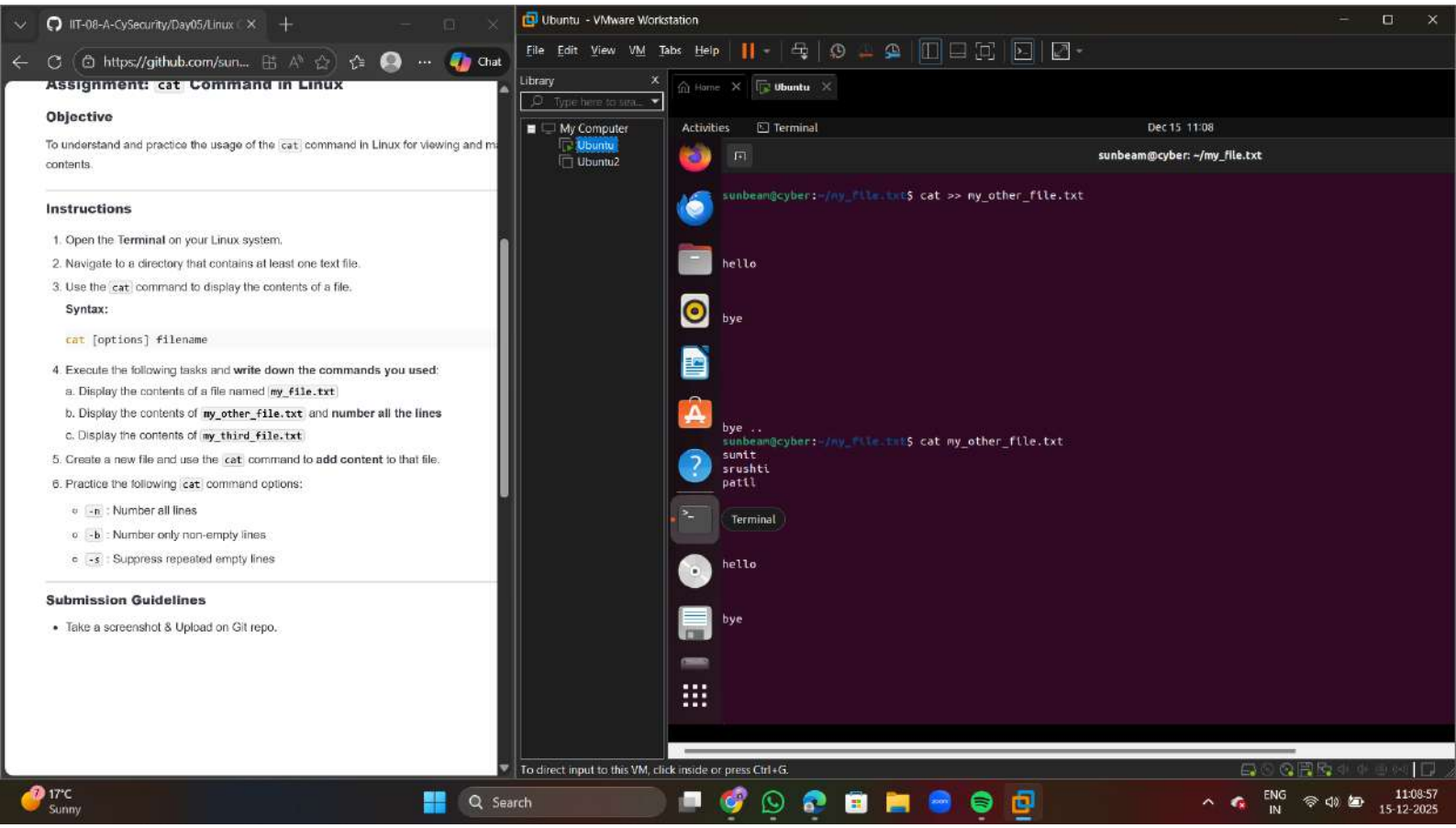

IIT-08-A-CySecurity/Day05/Linux
https://github.com/sun...
Chat
Assignment: cat Command in Linux
Objective
To understand and practice the usage of the cat command in Linux for viewing and m
contents.
Instructions
1. Open the Terminal on your Linux system.
2. Navigate to a directory that contains at least one text file.
3. Use the cat command to display the contents of a file.
Syntax:
cat [options] filename
4. Execute the following tasks and write down the commands you used:
a. Display the contents of a file named my_file.txt
b. Display the contents of my_other_file.txt and number all the lines
c. Display the contents of my_third_file.txt
5. Create a new file and use the cat command to add content to that file.
6. Practice the following cat command options:
-n : Number all lines
-b : Number only non-empty lines
-s : Suppress repeated empty lines
Submission Guidelines
Take a screenshot & Upload on Git repo.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 11:08
sunbeam@cyber: ~/my_file.txt
Rhythmbox
sunbeam@cyber:~$ mkdir my_file.txt
sunbeam@cyber:~$ touch my_other_file.txt
sunbeam@cyber:~$ cd my_file.txt
sunbeam@cyber:~/my_file.txt$ touch my_other_file.txt
sunbeam@cyber:~/my_file.txt$ ls
my_other_file.txt
sunbeam@cyber:~/my_file.txt$ touch my_third_file.txt
sunbeam@cyber:~/my_file.txt$ ls
my_other_file.txt my_third_file.txt
sunbeam@cyber:~/my_file.txt$ nano my_other_file.txt
sunbeam@cyber:~/my_file.txt$ cat -n my_other_file.txt
1 sumit
2 srushti
3 patil
4
sunbeam@cyber:~/my_file.txt$ nano my_file.txt
sunbeam@cyber:~/my_file.txt$ cat my
cat: my: No such file or directory
sunbeam@cyber:~/my_file.txt$
sunbeam@cyber:~/my_file.txt$ cat my_file.txt
sunbeam
venna
sunbeam@cyber:~/my_file.txt$ cat -b my_other_file.txt
1 sumit
2 srushti
3 patil
sunbeam@cyber:~/my_file.txt$ cat -s my_other_file.txt
sumit
srushti
patil
sunbeam@cyber:~/my_file.txt$ cat my_other_file.txt
sumit
srushti
patil
sunbeam@cyber:~/my_file.txt$ cat >> my_other_file.txt
To direct input to this VM, click inside or press Ctrl+G.
17°C
Sunny
Search
ENG
IN
11:08:33
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sun...
Chat
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-b : Number only non-empty lines
-s : Suppress repeated empty lines
Submission Guidelines
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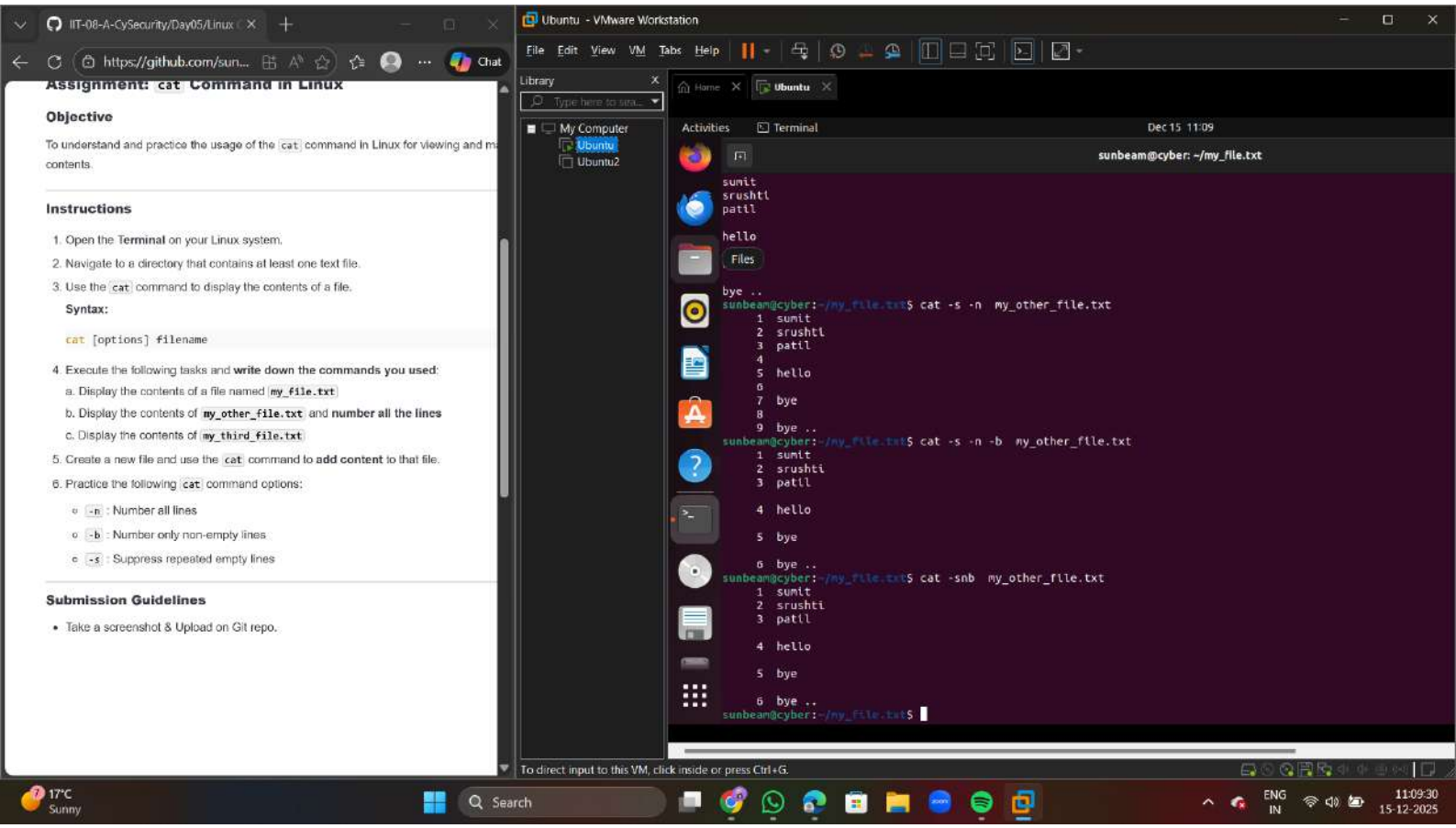
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 11:08
sunbeam@cyber: ~/my_file.txt
sunbeam@cyber:~/my_file.txt$ cat >> my_other_file.txt
hello
bye
bye ..
sunbeam@cyber:~/my_file.txt$ cat my_other_file.txt
sumit
srushti
patil
Terminal
hello
bye
To direct input to this VM, click inside or press Ctrl+G.
17°C
Sunny
Search
ENG
IN
11:08:57
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sun...
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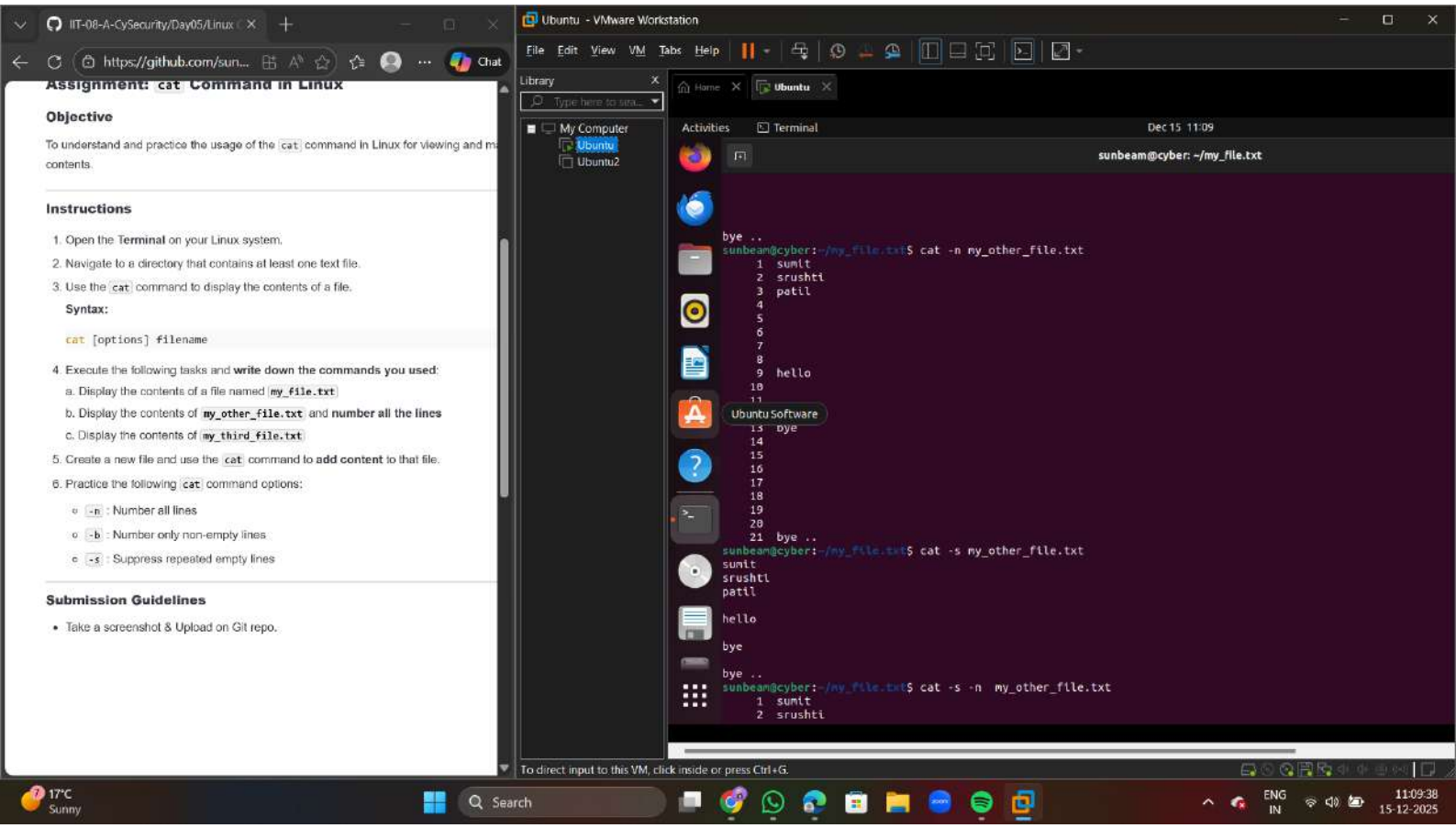
Take a screenshot & Upload on Git repo.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 11:09
sunbeam@cyber: ~/my_file.txt
sumit
srushtl
patil
hello
Files
bye ..
sunbeam@cyber:~/my_file.txt$ cat -s -n my_other_file.txt
1 sumit
2 srushtl
3 patil
4
5 hello
6
7 bye
8
9 bye ..
sunbeam@cyber:~/my_file.txt$ cat -s -n -b my_other_file.txt
1 sumit
2 srushti
3 patil
4 hello
5 bye
6 bye ..
sunbeam@cyber:~/my_file.txt$ cat -snb my_other_file.txt
1 sumit
2 srushti
3 patil
4 hello
5 bye
6 bye ..
sunbeam@cyber:~/my_file.txt$
To direct input to this VM, click inside or press Ctrl+G.
17°C
Sunny
Search
ENG
IN
11:09:30
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sun...
Chat
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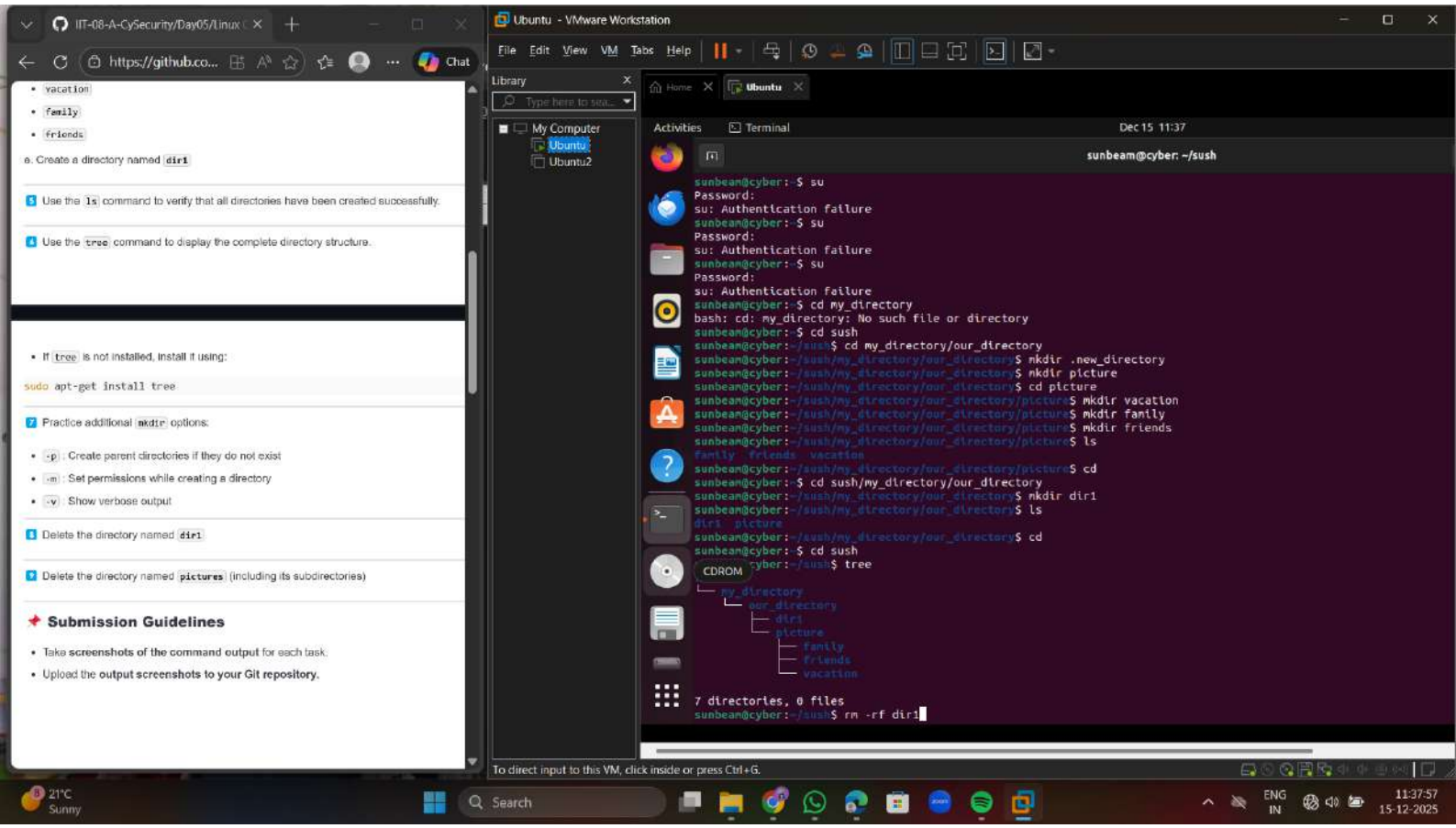
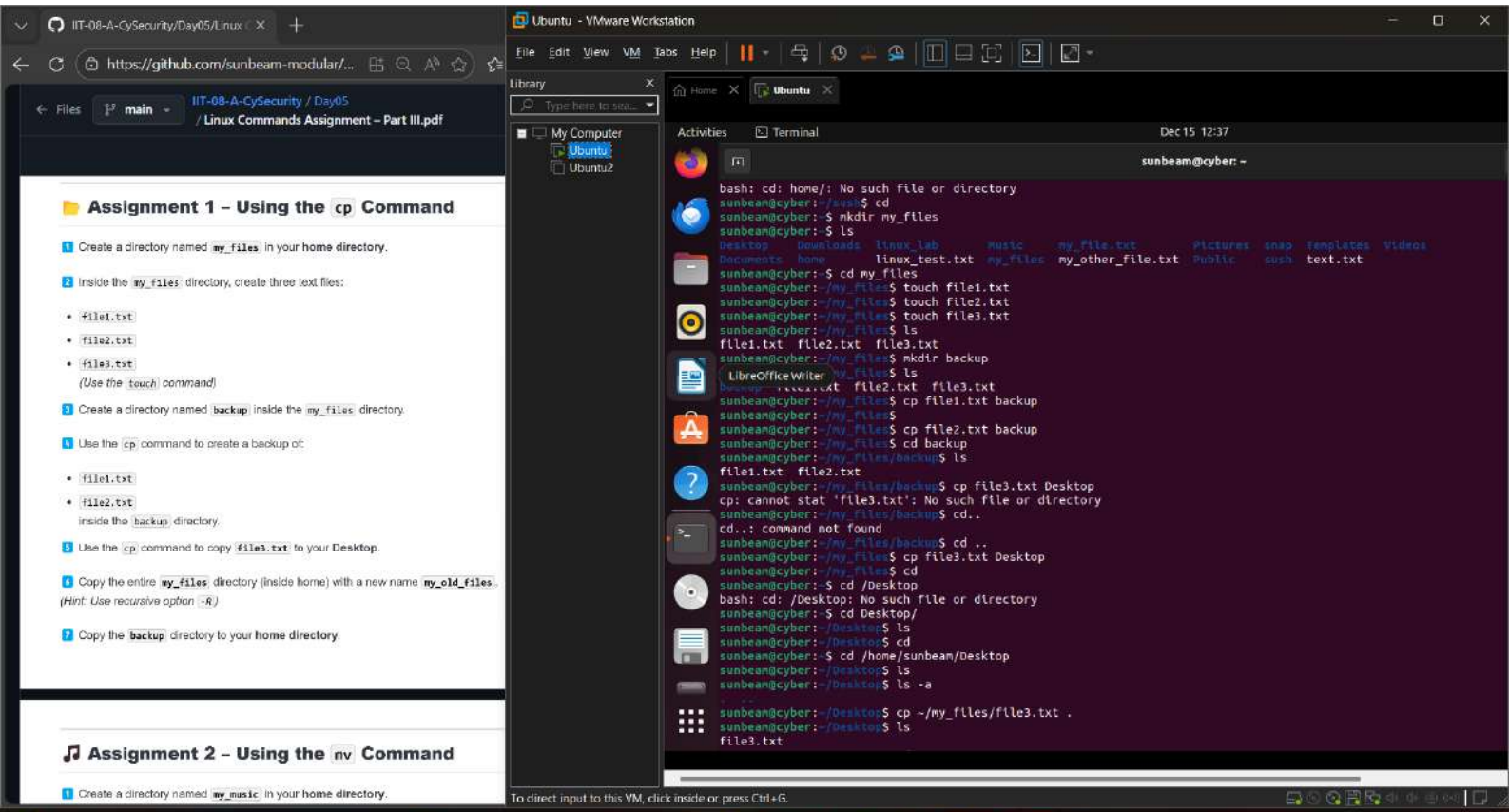
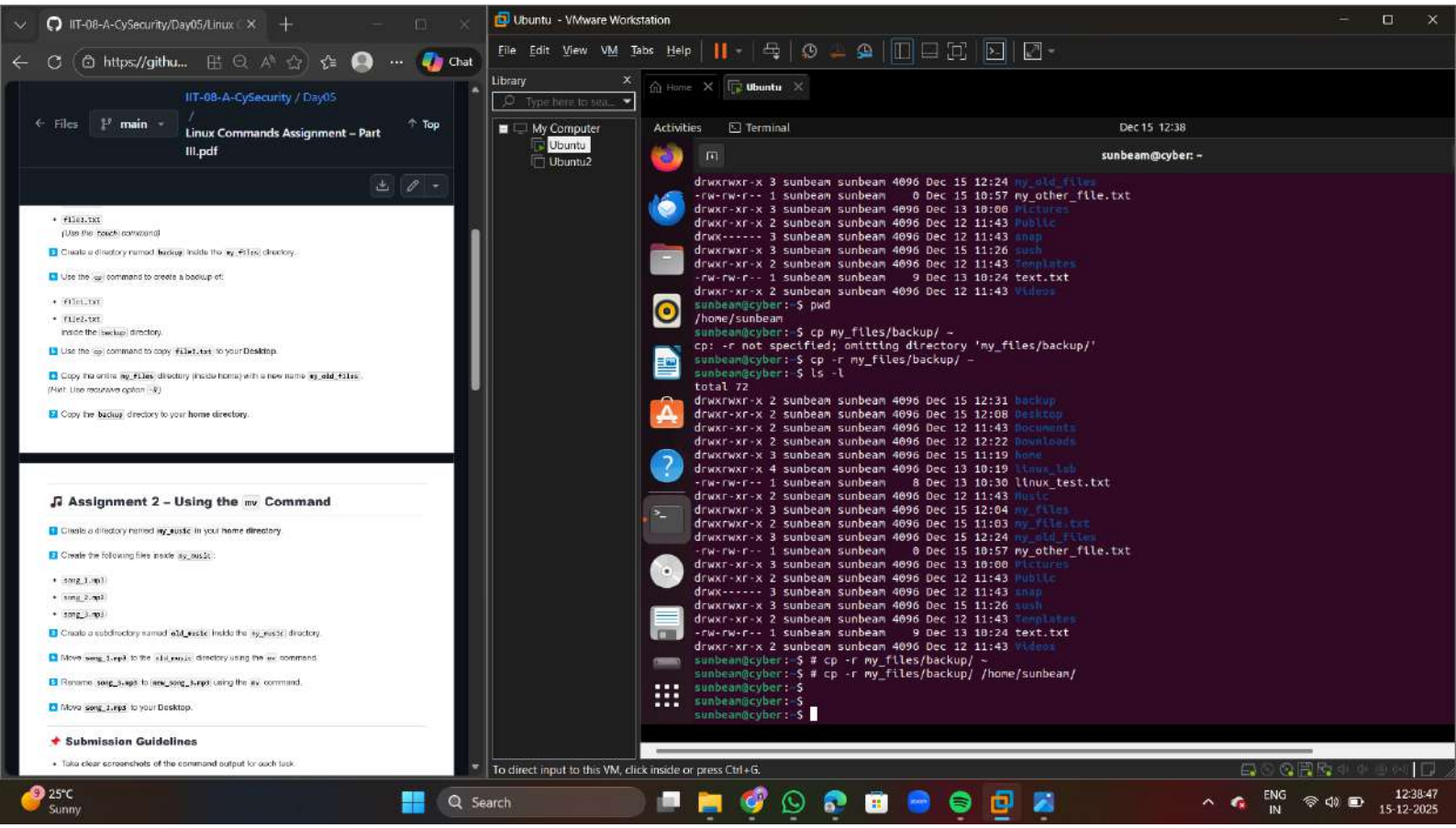
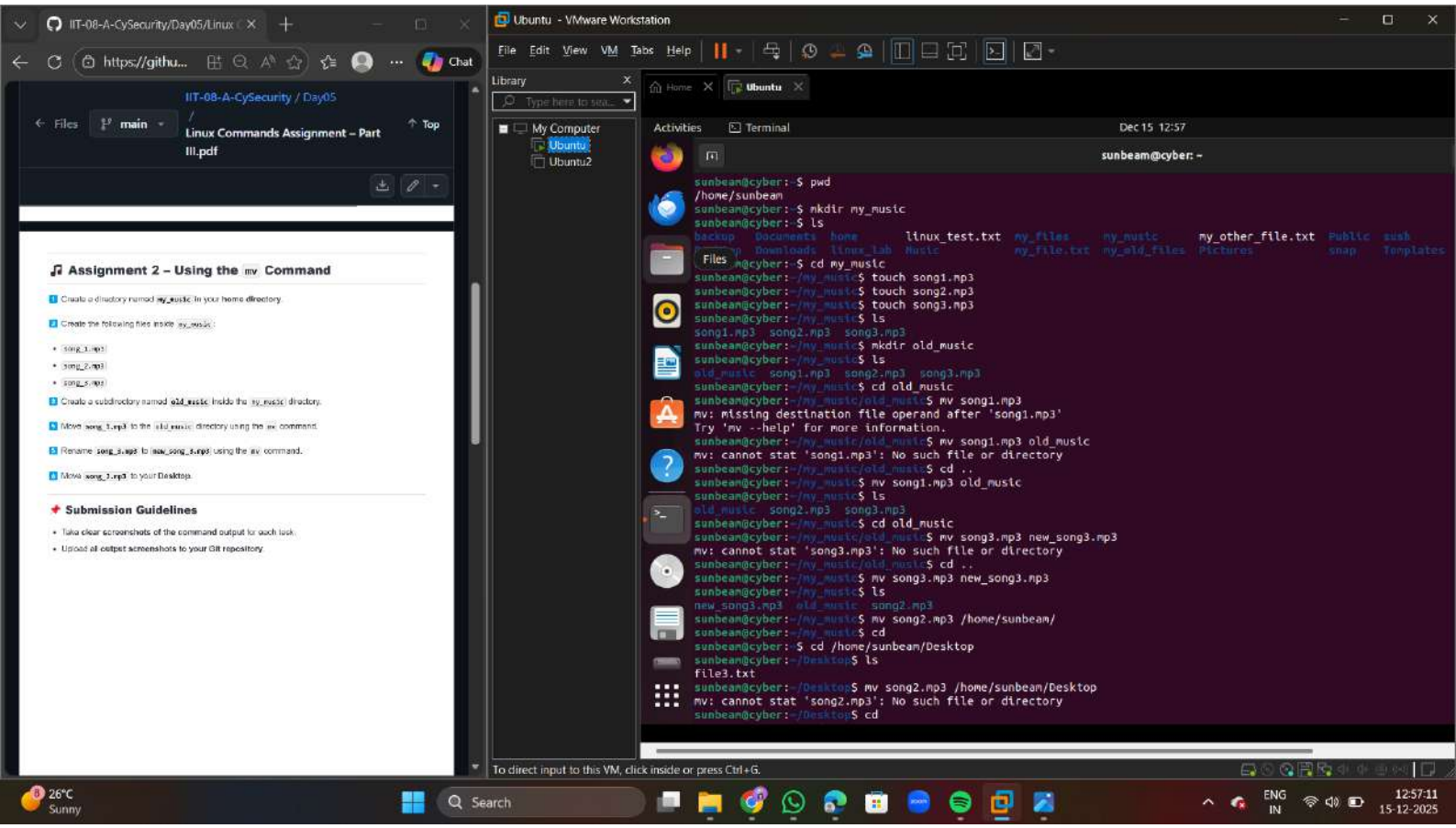
Submission Guidelines
Take a screenshot & Upload on Git repo.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 11:09
sunbeam@cyber: ~/my_file.txt
bye ..
sunbeam@cyber:~/my_file.txt$ cat -n my_other_file.txt
1 sumit
2 srushti
3 patil
9 hello
21 bye ..
sunbeam@cyber:~/my_file.txt$ cat -s my_other_file.txt
sumit
srushti
patil
hello
bye
bye ..
sunbeam@cyber:~/my_file.txt$ cat -s -n my_other_file.txt
1 sumit
2 srushti
Ubuntu Software
To direct input to this VM, click inside or press Ctrl+G.
17°C
Sunny
Search
ENG
IN
11:09:38
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.co...
Chat
vacation
family
friends
e. Create a directory named dir1
5 Use the ls command to verify that all directories have been created successfully.
6 Use the tree command to display the complete directory structure.
If tree is not installed, install it using:
sudo apt-get install tree
7 Practice additional mkdir options:
-p : Create parent directories if they do not exist
-m : Set permissions while creating a directory
-v : Show verbose output
8 Delete the directory named dir1
9 Delete the directory named pictures (including its subdirectories)
Submission Guidelines
Take screenshots of the command output for each task.
Upload the output screenshots to your Git repository.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 11:37
sunbeam@cyber: ~/sush
sunbeam@cyber:~$ su
Password:
su: Authentication failure
sunbeam@cyber:~$ su
Password:
su: Authentication failure
sunbeam@cyber:~$ su
Password:
su: Authentication failure
sunbeam@cyber:~$ cd my_directory
bash: cd: my_directory: No such file or directory
sunbeam@cyber:~$ cd sush
sunbeam@cyber:~/sush$ cd my_directory/our_directory
sunbeam@cyber:~/sush/my_directory/our_directory$ mkdir .new_directory
sunbeam@cyber:~/sush/my_directory/our_directory$ mkdir picture
sunbeam@cyber:~/sush/my_directory/our_directory$ cd picture
sunbeam@cyber:~/sush/my_directory/our_directory/picture$ mkdir vacation
sunbeam@cyber:~/sush/my_directory/our_directory/picture$ mkdir family
sunbeam@cyber:~/sush/my_directory/our_directory/picture$ mkdir friends
sunbeam@cyber:~/sush/my_directory/our_directory/picture$ ls
family friends vacation
sunbeam@cyber:~/sush/my_directory/our_directory/picture$ cd
sunbeam@cyber:~$ cd sush/my_directory/our_directory
sunbeam@cyber:~/sush/my_directory/our_directory$ mkdir dir1
sunbeam@cyber:~/sush/my_directory/our_directory$ ls
dir1 picture
sunbeam@cyber:~/sush/my_directory/our_directory$ cd
sunbeam@cyber:~$ cd sush
sunbeam@cyber:~/sush$ tree
CDROM
my_directory
our_directory
dir1
picture
family
friends
vacation
7 directories, 0 files
sunbeam@cyber:~/sush$ rm -rf dir1
To direct input to this VM, click inside or press Ctrl+G.
21°C
Sunny
Search
ENG
IN
11:37:57
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://github.com/sunbeam-modular/...
Files
main
IIT-08-A-CySecurity / Day05
/ Linux Commands Assignment – Part III.pdf
Assignment 1 – Using the cp Command
1 Create a directory named my_files in your home directory.
2 Inside the my_files directory, create three text files:
file1.txt
file2.txt
file3.txt
(Use the touch command)
3 Create a directory named backup inside the my_files directory.
4 Use the cp command to create a backup of:
file1.txt
file2.txt
inside the backup directory.
5 Use the cp command to copy file3.txt to your Desktop.
6 Copy the entire my_files directory (inside home) with a new name my_old_files.
(Hint: Use recursive option -R)
7 Copy the backup directory to your home directory.
Assignment 2 – Using the mv Command
1 Create a directory named my_music in your home directory.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 12:37
sunbeam@cyber: ~
LibreOffice Writer
bash: cd: home/: No such file or directory
sunbeam@cyber:~/sush$ cd
sunbeam@cyber:~$ mkdir my_files
sunbeam@cyber:~$ ls
Desktop Downloads linux_lab Music my_file.txt Pictures snap Templates Videos
Documents home linux_test.txt my_files my_other_file.txt Public sush text.txt
sunbeam@cyber:~$ cd my_files
sunbeam@cyber:~/my_files$ touch file1.txt
sunbeam@cyber:~/my_files$ touch file2.txt
sunbeam@cyber:~/my_files$ touch file3.txt
sunbeam@cyber:~/my_files$ ls
file1.txt file2.txt file3.txt
sunbeam@cyber:~/my_files$ mkdir backup
sunbeam@cyber:~/my_files$ ls
backup file1.txt file2.txt file3.txt
sunbeam@cyber:~/my_files$ cp file1.txt backup
sunbeam@cyber:~/my_files$
sunbeam@cyber:~/my_files$ cp file2.txt backup
sunbeam@cyber:~/my_files$ cd backup
sunbeam@cyber:~/my_files/backup$ ls
file1.txt file2.txt
sunbeam@cyber:~/my_files/backup$ cp file3.txt Desktop
cp: cannot stat 'file3.txt': No such file or directory
sunbeam@cyber:~/my_files/backup$ cd..
cd..: command not found
sunbeam@cyber:~/my_files/backup$ cd ..
sunbeam@cyber:~/my_files$ cp file3.txt Desktop
sunbeam@cyber:~/my_files$ cd
sunbeam@cyber:~$ cd /Desktop
bash: cd: /Desktop: No such file or directory
sunbeam@cyber:~$ cd Desktop/
sunbeam@cyber:~/Desktop$ ls
sunbeam@cyber:~/Desktop$ cd
sunbeam@cyber:~$ cd /home/sunbeam/Desktop
sunbeam@cyber:~/Desktop$ ls
sunbeam@cyber:~/Desktop$ ls -a
. ..
sunbeam@cyber:~/Desktop$ cp ~/my_files/file3.txt .
sunbeam@cyber:~/Desktop$ ls
file3.txt
To direct input to this VM, click inside or press Ctrl+G.
25°C
Sunny
Search
ENG
IN
12:37:34
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://githu...
Chat
IIT-08-A-CySecurity / Day05
Files
main
Top
Linux Commands Assignment – Part III.pdf
file3.txt
(Use the touch command)
Create a directory named backup inside the my_files directory.
Use the cp command to create a backup of:
file1.txt
file2.txt
inside the backup directory.
Use the cp command to copy file1.txt to your Desktop.
Copy the entire my_files directory (inside home) with a new name my_old_files.
(Hint: Use recursive option -R)
Copy the backup directory to your home directory.
Assignment 2 – Using the mv Command
Create a directory named my_music in your home directory.
Create the following files inside my_music:
song_1.mp3
song_2.mp3
song_3.mp3
Create a subdirectory named old_music inside the my_music directory.
Move song_1.mp3 to the old_music directory using the mv command.
Rename song_3.mp3 to new_song_3.mp3 using the mv command.
Move song_2.mp3 to your Desktop.
Submission Guidelines
Take clear screenshots of the command output for each task.
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 12:38
sunbeam@cyber: ~
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
drwxr-xr-x 3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Public
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 snap
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 9 Dec 13 10:24 text.txt
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
sunbeam@cyber:~$ pwd
/home/sunbeam
sunbeam@cyber:~$ cp my_files/backup/ ~
cp: -r not specified; omitting directory 'my_files/backup/'
sunbeam@cyber:~$ cp -r my_files/backup/ ~
sunbeam@cyber:~$ ls -l
total 72
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 15 12:31 backup
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 15 12:08 Desktop
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Documents
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 12:22 Downloads
drwxrwxr-x 3 sunbeam sunbeam 4096 Dec 15 11:19 home
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
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 12:24 my_old_files
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 15 10:57 my_other_file.txt
drwxr-xr-x 3 sunbeam sunbeam 4096 Dec 13 10:00 Pictures
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Public
drwx------ 3 sunbeam sunbeam 4096 Dec 12 11:43 snap
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 9 Dec 13 10:24 text.txt
drwxr-xr-x 2 sunbeam sunbeam 4096 Dec 12 11:43 Videos
sunbeam@cyber:~$ # cp -r my_files/backup/ ~
sunbeam@cyber:~$ # cp -r my_files/backup/ /home/sunbean/
sunbeam@cyber:~$
sunbeam@cyber:~$
sunbeam@cyber:~$
To direct input to this VM, click inside or press Ctrl+G.
25°C
Sunny
Search
ENG
IN
12:38:47
15-12-2025


IIT-08-A-CySecurity/Day05/Linux
https://githu...
Chat
IIT-08-A-CySecurity / Day05
Files
main
Linux Commands Assignment – Part III.pdf
Top
Assignment 2 – Using the mv Command
Create a directory named my_music in your home directory.
Create the following files inside my_music:
song_1.mp3
song_2.mp3
song_3.mp3
Create a subdirectory named old_music inside the my_music directory.
Move song_1.mp3 to the old_music directory using the mv command.
Rename song_3.mp3 to new_song_3.mp3 using the mv command.
Move song_1.mp3 to your Desktop.
Submission Guidelines
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Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu
Ubuntu2
Home
Ubuntu
Activities
Terminal
Dec 15 12:57
sunbeam@cyber: ~
Files
sunbeam@cyber:~$ pwd
/home/sunbeam
sunbeam@cyber:~$ mkdir my_music
sunbeam@cyber:~$ ls
backup Documents home linux_test.txt my_files my_music my_other_file.txt Public snap
Desktop Downloads linux_lab Music my_file.txt my_old_files Pictures snap Templates
sunbeam@cyber:~$ cd my_music
sunbeam@cyber:~/my_music$ touch song1.mp3
sunbeam@cyber:~/my_music$ touch song2.mp3
sunbeam@cyber:~/my_music$ touch song3.mp3
sunbeam@cyber:~/my_music$ ls
song1.mp3 song2.mp3 song3.mp3
sunbeam@cyber:~/my_music$ mkdir old_music
sunbeam@cyber:~/my_music$ ls
old_music song1.mp3 song2.mp3 song3.mp3
sunbeam@cyber:~/my_music$ cd old_music
sunbeam@cyber:~/my_music/old_music$ mv song1.mp3
mv: missing destination file operand after 'song1.mp3'
Try 'mv --help' for more information.
sunbeam@cyber:~/my_music/old_music$ mv song1.mp3 old_music
mv: cannot stat 'song1.mp3': No such file or directory
sunbeam@cyber:~/my_music/old_music$ cd ..
sunbeam@cyber:~/my_music$ mv song1.mp3 old_music
sunbeam@cyber:~/my_music$ ls
old_music song2.mp3 song3.mp3
sunbeam@cyber:~/my_music$ cd old_music
sunbeam@cyber:~/my_music/old_music$ mv song3.mp3 new_song3.mp3
mv: cannot stat 'song3.mp3': No such file or directory
sunbeam@cyber:~/my_music/old_music$ cd ..
sunbeam@cyber:~/my_music$ mv song3.mp3 new_song3.mp3
sunbeam@cyber:~/my_music$ ls
new_song3.mp3 old_music song2.mp3
sunbeam@cyber:~/my_music$ mv song2.mp3 /home/sunbeam/
sunbeam@cyber:~/my_music$ cd
sunbeam@cyber:~$ cd /home/sunbeam/Desktop
sunbeam@cyber:~/Desktop$ ls
file3.txt
sunbeam@cyber:~/Desktop$ mv song2.mp3 /home/sunbeam/Desktop
mv: cannot stat 'song2.mp3': No such file or directory
sunbeam@cyber:~/Desktop$ cd
To direct input to this VM, click inside or press Ctrl+G.
26°C
Sunny
Search
ENG
IN
12:57:11
15-12-2025