

Lab 4: Linux File System

Task 1: Create, view and delete directories

- `mkdir <directory name>` = create directory
 - `rmdir <directory name>` = delete empty directory
 - `rm -r` = delete directory with subdirectory
1. Log in with your username and password. (ex:Username = wserver1 password=password1) and go your user's home directory by entering **`cd /home/wserver1`**
 2. Create the following directories:
 - a. SubjectsJan2016, Co_Jan2016
 - b. Activity
 - c. Lecturers
 - d. Courseworks
 - e. Courseworks/CWJan2016
 3. Verify that all directories created by entering **`ls`**
 4. Verify that CWJan2016 was created by entering **`ls Courseworks`**
 5. Delete directory Activity.
 6. Verify that all directory Activity deleted by entering **`ls`**
 7. Delete directory Coursework/CWJan2106 by entering
 8. Verify that all directory Activity deleted by entering **`ls`**

Task 2: Create, view and delete files

- `touch <file name>` – create file
- `cat <file name>` –view file
- `cat >> <file name>` - create file with content
- `less <file name>` – view file page-by-page
- `head <file name>` – view first few lines
- `tail <file name>` – view last few lines
- `rm <file name>` -delete file

Follow the following instructions:

1. Log in with your username and password. (ex:Username = wserver1 password=password1) and go your user's home directory by entering **`cd /home/wserver1`**
2. Create the following files:
 - a. file1, file2,file3,file4.....file 10
 - b. LabActivity
 - c. LectureNotes
 - d. ClassTimetable
 - e. Assignment1,Assignment2
 - f. WeekendActivity
3. List all files created in your current working directory by entering **`ls`**.
4. Open 2nd terminal window (new tab) and log in as root **`su -`** with a root password created before.
5. Display the content of the `/var/log/messages` file by entering **`cat /var/log/messages`**
6. Display the content of the `/var/log/messages` page-by-page by entering **`less /var/log/messages`** then press **`q`** to close.
7. Display the first 5 lines of the `/var/log/messages` by entering **`head -5 /var/log/messages`**

8. View a continuously updated display of the last lines of the `/var/log/messages` file by entering **`tail -f /var/log/messages`** and press **Ctrl + c** to stop the tail process
9. In the 1st terminal, Create a new file named **`try1`** and enter the following content **`im trying Linux commands!!!!`** By entering **`cat >>try1`** then press enter and enter the content. To exit & save press **Ctrl + c**
10. View the content of the file **`cat try1`**
11. In the 1st terminal, delete file1 by entering **`rm file1`**
12. List all files in your current working directory by entering **`ls`** and notice that file1 is deleted.
13. To log out as a root by entering **`exit`**
14. Close the terminal window by entering **`exit`**