

Module 18 : - Linux server - Manage user and Groups and working with file systems

1) Add a New User

- `sudo useradd newusername`
- `sudo useradd -m -s /bin/bash newusername`
- Delete a User
- `sudo userdel username`
- `sudo userdel -r username`
- Add a New Group
- `sudo groupadd newgroupname`
- Add a User to a Group
- `sudo usermod -aG groupname username`
- Change User Password
- `sudo passwd username`

2) Different file system types in Linux.

- EXT4 (Fourth Extended Filesystem)
- XFS
- Btrfs (B-Tree Filesystem)
- FAT32 (File Allocation Table 32)
- exFAT (Extended File Allocation Table)
- NTFS (New Technology File System)
- ZFS (Zettabyte File System)

3) Explain File Permission groups in Linux.

- In Linux, file permissions are critical for system security and control.

- Each file and directory has a set of permissions assigned to it that determine who can read, write, or execute the file.

4) Install the New Desktop Environment

- `sudo apt install ubuntu-desktop`
- Log Out
- After installing the new desktop environment, log out of your current session.
- Select the New Desktop Environment at the Login Screen
- At the login screen, click the gear icon next to your username and select the new desktop environment (e.g., GNOME).
- Log In
- Log in to your new desktop environment.
- Remove the Old Desktop Environment (Optional)
- If you no longer need the old desktop environment, you can remove it to free up space.
- `sudo apt purge kubuntu-desktop plasma-desktop`

5) In Linux, there are three main types of permissions for files and directories.

- These permissions determine who can read, write, or execute the file or directory.
- The permissions are grouped into three categories: Owner (User), Group, and Others.

6) Normal Mode

- Description: This is the default mode when you start vi.
- In this mode, you can navigate through the text, delete text, copy and paste, and perform other commands.
- Insert Mode
- Description: In this mode, you can insert and edit text. You switch to insert mode from normal mode by pressing one of several keys.
- Command-Line Mode
- Description: This mode is used to execute commands and perform file operations such as saving, quitting, and searching. Enter command-line mode from normal mode by pressing.
- Switching Between Modes
- Normal Mode to Insert Mode: Press i, I, a, A, o, or O.
- Insert Mode to Normal Mode: Press Esc.
- Normal Mode to Command-Line Mode: Press : .