**User Commands in Linux 🐧**

**1️. Creating and Managing Users**

* **Create a new user:  
  sudo adduser [username]  
  *Creates a new user with a home directory and prompts for a password setup.***
* **Change a user’s password:  
  passwd [username]  
  *Changes the password of the specified user.***
* **Delete a user (without removing their home directory):  
  sudo deluser [username]  
  *Removes a user but keeps their home directory.***
* **Remove a user and their home directory:  
  sudo deluser --remove-home [username]  
  *Deletes the user and their home directory.***

**2️. Viewing User and Group Information**

* **See which groups a user belongs to:  
  groups [username]**
* **View detailed user information (ID, groups, etc.):  
  id [username]**
* **List all existing users:  
  cat /etc/passwd  
  *Displays all system users.***
* **View all groups on the system:  
  cat /etc/group**
* **Check users in a specific group:  
  getent group [group-name]**

**3️. Creating and Managing Groups**

* **Create a new group:  
  sudo groupadd [group-name]  
  *Adds a new group to the system.***
* **Add a user to a group:  
  sudo usermod -aG [group-name] [username]  
  *Appends the user to the specified group without removing them from existing groups.***
* **Remove a user from a group:  
  sudo gpasswd -d [username] [group-name]**
* **Delete a group:**

**sudo groupdel [group-name]**

**4️. Managing User Privileges**

* **Grant admin (sudo) privileges to a user:  
  sudo usermod -aG sudo [username]  
  *Adds the user to the sudo group, allowing them to execute administrative commands.***
* **Check if a user has sudo privileges:  
  sudo -l**
* **Switch to another user:  
  su [username]  
  *Temporarily logs in as another user.***

**5️. Working with File and Folder Permissions**

* **Change the group ownership of a folder:  
  sudo chgrp [group-name] [folder-name]  
  *Changes the group ownership of a folder to a specified group.***
* **Change group ownership recursively (for all subfolders and files):  
  sudo chgrp -R [group-name] [folder-name]**
* **Modify folder permissions:**
  + **Allow group members to write to a folder:  
    sudo chmod g+w [folder-name]**
  + **Grant full access to a folder for all users:  
    sudo chmod 777 [folder-name]**
  + **Restrict access to group members only:  
    sudo chmod 770 [folder-name]**
* **Check permissions of a file or folder:  
  ls -ld [folder-name]**

**6️. Deleting Users and Groups**

* **Delete a user from the system:  
  sudo deluser [username]**
* **Delete a user along with their home directory:  
  sudo deluser --remove-home [username]**
* **Delete only home directory**

**sudo rm -r /home/[username]**

* **Delete a group:  
  sudo groupdel [group-name]**

**7️. Additional Useful Commands**

* **Kill all processes belonging to a user:  
  sudo killall -u [username]**
* **Check active logged-in users:  
  who**
* **Check last login time of a user:  
  lastlog -u [username]**