**1. Navigate the File System**

* **cd**: Change Directory
  + cd reports: Navigate to the 'reports' directory.
  + cd /home/analyst/reports: Navigate using the full path.
  + cd ..: Go up one level in the directory hierarchy.
* **ls**: List Directory Contents
  + ls: List files in the current directory.
  + ls /home/analyst/reports: List files in a specified directory.
  + ls -a: Include hidden files in the listing.
  + ls -l: Show detailed information (permissions, owner, size, etc.).
  + ls -la: Show all files, including hidden ones, with details.
* **pwd**: Print Working Directory
  + Shows the current directory path.
* **whoami**: Display Current Username
  + Displays the logged-in username.

**2. Read Files**

* **cat**: Display File Content
  + cat updates.txt: Displays the content of the file updates.txt.
* **head**: View Beginning of File
  + head updates.txt: Shows the first 10 lines of a file.
  + head -n 5 updates.txt: Shows the first 5 lines of updates.txt.
* **less**: View File One Page at a Time
  + less updates.txt: Allows navigation through the file with forward and backward movement.
* **tail**: View End of File
  + tail updates.txt: Displays the last 10 lines.
  + tail -n 5 updates.txt: Displays the last 5 lines.

**3. Manage the File System**

* **cp**: Copy Files or Directories
  + cp permissions.txt /home/analyst/logs: Copies permissions.txt to another directory.
* **mkdir**: Create a New Directory
  + mkdir network: Creates a directory named network.
  + mkdir /home/analyst/logs network: Creates a directory in a specified path.
* **mv**: Move or Rename Files or Directories
  + mv permissions.txt /home/analyst/logs: Moves a file to another location.
  + mv permissions.txt perm.txt: Renames a file within the same directory.
* **nano**: Open File in Nano Editor
  + nano permissions.txt: Opens permissions.txt in the nano text editor.
* **rm**: Remove Files
  + rm permissions.txt: Removes the file permissions.txt.
* **rmdir**: Remove Empty Directories
  + rmdir network: Deletes the empty directory network.
* **touch**: Create an Empty File
  + touch permissions.txt: Creates an empty file named permissions.txt.

**4. Filter Content**

* **find**: Search for Files or Directories
  + find /home/analyst/projects: Find all files and directories within the projects directory.
  + find /home/analyst/projects -name "\*log\*": Search for files containing "log" in their names.
* **grep**: Search for Content in Files
  + grep OS updates.txt: Searches for the string "OS" in updates.txt.
* **| (Piping)**: Send Output from One Command to Another
  + ls /home/analyst/reports | grep users: Filters the output of ls to show files containing "users" in their name.

**5. Manage Users and Their Permissions**

* **chmod**: Change Permissions
  + chmod u+rwx,g+rwx,o+rwx login\_sessions.txt: Grants read, write, and execute permissions to user, group, and others.
  + chmod g-rw bonuses.txt: Removes read and write permissions for the group on bonuses.txt.
* **chown**: Change File Ownership
  + sudo chown fgarcia access.txt: Changes ownership of access.txt to user fgarcia.
  + sudo chown :security access.txt: Changes the group owner of access.txt to security.
* **groupdel**: Delete a Group
  + sudo groupdel accounting: Deletes the group accounting.
* **useradd**: Add a New User
  + sudo useradd fgarcia: Adds a new user fgarcia to the system.
  + sudo useradd -g security fgarcia: Adds fgarcia to the primary group security.
  + sudo useradd -G finance,admin fgarcia: Adds fgarcia to multiple supplemental groups.
* **userdel**: Delete a User
  + sudo userdel fgarcia: Deletes user fgarcia from the system.
  + sudo userdel -r fgarcia: Deletes user fgarcia and their home directory.
* **usermod**: Modify User Account
  + sudo usermod -g executive fgarcia: Changes the primary group of user fgarcia to executive.
  + sudo usermod -G accounting fgarcia: Modifies the supplemental groups of user fgarcia.
  + sudo usermod -a -G marketing fgarcia: Adds fgarcia to the marketing group without removing other group memberships.
  + sudo usermod -d /home/garcia\_f fgarcia: Changes the home directory of fgarcia.
  + sudo usermod -L fgarcia: Locks user fgarcia's account (prevents login).
  + sudo usermod -l garcia\_f fgarcia: Renames the login name of user fgarcia to garcia\_f.

**6. Get Help in Linux**

* **apropos**: Search Manual Page Descriptions
  + apropos password: Searches for commands related to 'password'.
* **man**: View Manual Pages for Commands
  + man chown: Displays detailed information on the chown command.
* **whatis**: Display a One-Line Description of a Command
  + whatis nano: Provides a short description of the nano command.