

Commonly Used Bash Commands for Linux OS

File and Directory Management

- ``ls`` - List directory contents.
- ``cd`` - Change directory.
- ``pwd`` - Print the current working directory.
- ``mkdir`` - Create a new directory.
- ``rmdir`` - Remove an empty directory.
- ``rm`` - Remove files or directories.
- ``cp`` - Copy files or directories.
- ``mv`` - Move or rename files or directories.

File Viewing and Editing

- ``cat`` - Concatenate and display file content.
- ``nano`` / ``vi`` - Edit files.
- ``more`` - View file content one screen at a time.
- ``less`` - View file content with navigation support.
- ``head`` - Display the first few lines of a file.
- ``tail`` - Display the last few lines of a file.
- ``grep`` - Search for patterns in files.

File Permissions and Ownership

- ``chmod`` - Change file permissions.
- ``chown`` - Change file ownership.
- ``ls -l`` - View file permissions and ownership.

Process Management

- ``ps`` - Display running processes.

``top` / `htop`` - Monitor system processes in real time.

``kill`` - Terminate a process by PID.

``killall`` - Terminate processes by name.

Networking

``ping`` - Test network connectivity.

``ifconfig` / `ip`` - View or configure network interfaces.

``curl`` - Transfer data from a URL.

``wget`` - Download files from the web.

System Information

``uname`` - Display system information.

``df`` - Display disk space usage.

``du`` - Display directory size.

``free`` - Display memory usage.

Search

``find`` - Search for files and directories.

``locate`` - Quickly find files.

Archiving and Compression

``tar`` - Archive files.

``zip` / `unzip`` - Compress and decompress files.

``gzip` / `gunzip`` - Compress and decompress files using gzip.

Permissions and Execution

``sudo`` - Run commands with superuser privileges.

``whoami`` - Show the current user.

``history`` - Display the command history.

Package Management

- For Ubuntu/Debian:

``apt update`` - Update package lists.

``apt install package_name`` - Install a package.

``apt remove package_name`` - Remove a package.

- For Red Hat/CentOS:

``yum update`` - Update packages.

``yum install package_name`` - Install a package.

Other Useful Commands

``echo`` - Print messages or variables.

``env`` - Display environment variables.

``alias`` - Create command shortcuts.

``exit`` - Exit the current session.