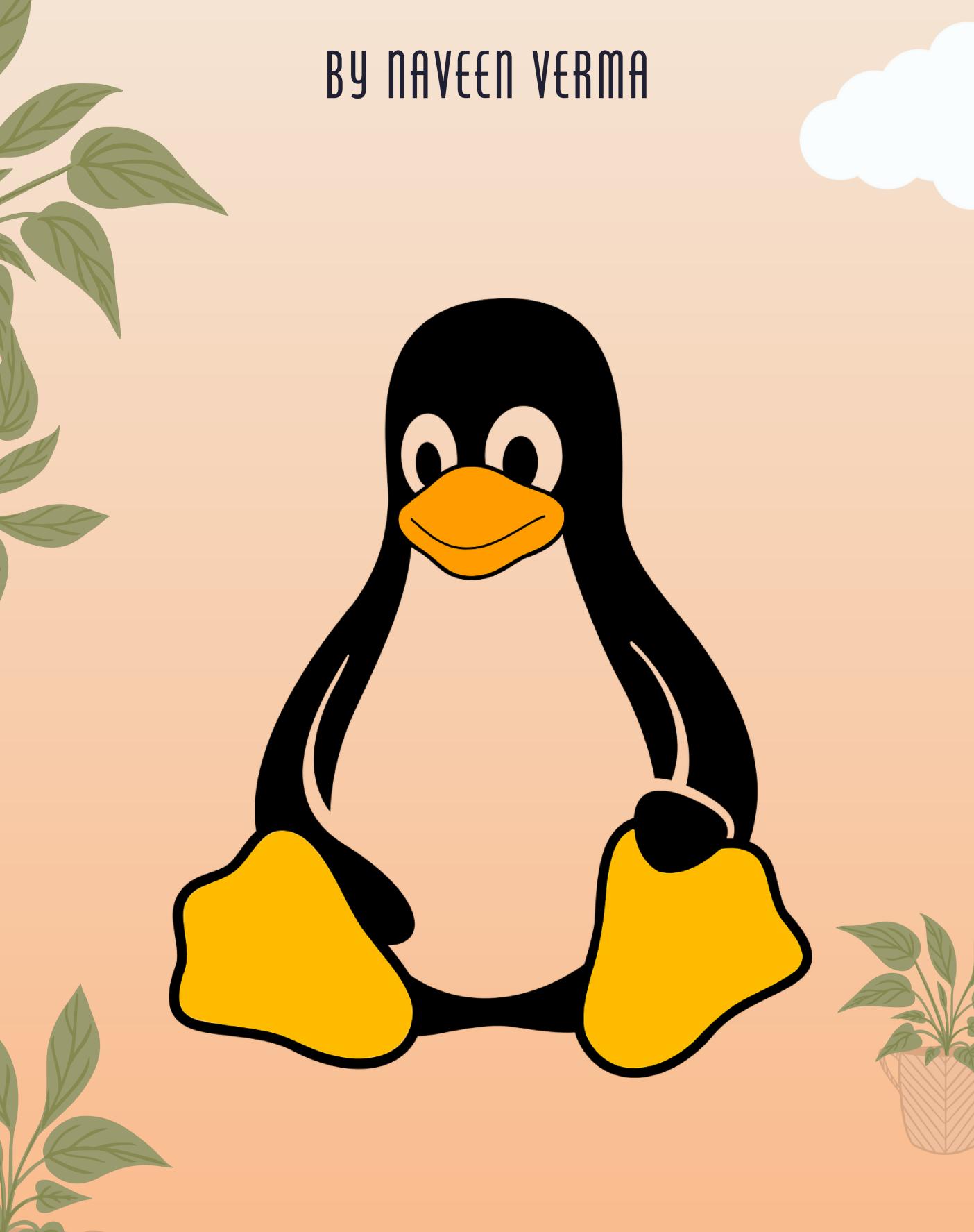
LINUX CHEAT SHEET RY NAVEEN VERMA



Linux Cheat Sheet

System Information

- **lsb_release** -a: Get the version of Ubuntu.
- **uname** -a: Show system and kernel information.
- **df** -**h**: Show the storage units in the system.
- date: Show the current date and time.

File and Directory Operations

- List Files and Directories
 - **ls**: List all the files/directories in the present working directory.
 - **ls** -a: List all files/directories, including hidden ones.
 - ls -l: Show all permissions, owner, group, and time of creation of files/directories.
 - **pwd**: Show the present working directory.
- Create, Copy, Move, and Delete
 - mkdir <directory name> : Create a directory.
 - mkdir <directory names>: Create multiple directories by providing names separated by spaces.
 - **mkdir** -p **directory path**>: Create directories with the specified path.
 - **mkdir <directory**{1...10}> : Create directories within the specified range.
 - touch <file_name> : Create a file.
 - **touch <file_names>** : Create multiple files by providing names separated by spaces.
 - **touch <file_name{1..10}>** : Create files within the specified range.
 - rm: Remove files.
 - **rm r** : Recursively remove a directory.
 - cp <source> <destination> : Copy files/directories from one directory to another.
 - mv <source> <destination> : Move files/directories from one directory to another.
 - mv <current filename> <desired filename>: Rename a file.

File Viewing and Editing

- Display Content
 - cat <file_name> : Display the content of a file.
 - **head <file_name>** : Display the first 10 lines of a file.

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- **tail <file_name>** : Display the last 10 lines of a file.
- **head -n <number> <file_name>**: Display the specified number of lines from the top of a file.
- **tail** -**n** <**number**> <**file_name**> : Display the specified number of lines from the bottom of a file.

Edit Files

- **vim <file_name>** : Open a file in the Vim editor.
- nano <file_name> : Open a file in the Nano editor.
- **sed** '**script**' **<file_name>**: Edit files without opening and display the changed output.

Navigation

- **cd** : Change directory to the base location.
- **cd** . . : Move back one directory.
- cd <path to a directory> : Move directly to the specified directory.
- **cd** /: Move to the root directory.

User and Group Management

- User Operations
 - **whoami**: Show the username.
 - sudo useradd -m <username>: Add a new user.
 - **sudo passwd <username>** : Add a password for a user.
 - **su <username>** : Switch to a different user.
 - **sudo su** : Switch to the super user.
 - sudo userdel <username> : Delete a user.

Group Operations

- sudo groupadd <groupname> : Add a new group.
- sudo groupdel <group_name> : Delete a group.
- sudo usermod -aG <groupname> <user>: Add a user to a group.
- sudo gpasswd M < user1, user2, user3 > : Add multiple users to a group.
- sudo gpasswd -d <user> <group_name> : Remove a user from a group.

Permissions and Ownership

- Changing Permissions
 - **chmod u+x <file name>** : Add executable permission to the owner.
 - **chmod g+r <file_name>** : Add read permission to the group.
 - **chmod o+rw <file_name>** : Add read and write permissions to others.
- Setting Permissions with Numeric Values

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- **chmod 700 <filename>** : Gives read, write, and execute permissions to the owner, and no permissions to the group and others.
- Numeric values:
 - **0** : No permission.
 - **1** : Execute.
 - 2 : Write.
 - **3** : Execute + Write.
 - 4 : Read.
 - **5** : Read + Execute.
 - **6**: Read + Write.
 - **7** : Read + Write + Execute.
- Changing Ownership
 - chown <user> <file_name/directory> : Change ownership.
 - chgrp <group_name> <file_name/directory> : Change group ownership.

System Management

- Package Management
 - **sudo apt-get update**: Update the system's package index files.
 - **sudo apt-get upgrade**: Upgrade the system packages.
 - sudo apt-get install <tool/app> : Install a tool/app.
 - **sudo apt purge <application>** : Remove an application.
- Service Management
 - **systemctl <option> <service_name>** : Start, stop, or check the status of a service.
 - **service <service name> status**: Check the status of a service.

Search and Find

- grep <word> <file_name/directory> : Search for a pattern or string in a file or directory and display it.
- **find <directory> <option> <filename>**: Find files based on name, permission, user, group, etc.
- awk '/<word>/' <file_name> : Pattern searching and processing the output as needed.

History and Help

- **history**: List all previously used commands.
- man <command>: Display the manual for the specified command