# **Linux Cheatsheet**

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- Is The most frequently used command in Linux to list directories
- pwd Print working directory command in Linux
- cd Linux command to navigate through directories
- mkdir Command used to create directories in Linux
- my Move or rename files in Linux
- cp Similar usage as mv but for copying files in Linux
- rm Delete files or directories
- touch Create blank/empty files
- In Create symbolic links (shortcuts) to other files
- cat Display file contents on the terminal
- clear Clear the terminal display
- · echo Print any text that follows the command
- less Linux command to display paged outputs in the terminal
- man Access manual pages for all Linux commands
- uname Linux command to get basic information about the OS
- whoami Get the active username
- tar Command to extract and compress files in Linux
- grep Search for a string within an output
- head Return the specified number of lines from the top
- tail Return the specified number of lines from the bottom
- diff Find the difference between two files
- cmp Allows you to check if two files are identical
- comm Combines the functionality of diff and cmp
- sort Linux command to sort the content of a file while outputting
- export Export environment variables in Linux
- zip Zip files in Linux
- unzip Unzip files in Linux
- ssh Secure Shell command in Linux
- service Linux command to start and stop services
- ps Display active processes
- kill and killall Kill active processes by process ID or name
- df Display disk filesystem information
- mount Mount file systems in Linux
- chmod Command to change file permissions
- chown Command for granting ownership of files or folders
- ifconfig Display network interfaces and IP addresses
- traceroute Trace all the network hops to reach the destination
- wget Direct download files from the internet

- ufw Firewall command
- iptables Base firewall for all other firewall utilities to interface with
- apt, pacman, yum, rpm Package managers depending on the distro
- sudo Command to escalate privileges in Linux
- cal View a command-line calendar
- alias Create custom shortcuts for your regularly used commands
- dd Majorly used for creating bootable USB sticks
- whereis Locate the binary, source, and manual pages for a command
- what is Find what a command is used for
- top View active processes live with their system usage
- useradd and usermod Add new user or change existing users data
- passwd Create or update passwords for existing users

# **Git and Github Cheatsheet**

# 01 Git configuration

\$ git config --global user.name "Your Name"

Set the name that will be attached to your commits and tags.

\$ git config --global user.email "you@example.com"

Set the e-mail address that will be attached to your commits and tags.

\$ git config --global color.ui auto

Enable some colorization of Git output.

# 02 Starting A Project

### \$ git init [project name]

Create a new local repository. If [project name] is provided, Git will create a new directory name [project name] and will initialize a repository inside it. If [project name] is not provided, then a new repository is initialized in the current directory.

#### \$ git clone [project url]

Downloads a project with the entire history from the remote repository.

### 03 Day-To-Day Work

#### \$ git status

Displays the status of your working directory. Options include new, staged, and modified files. It will retrieve branch name, current commit identifier, and changes pending commit.

#### \$ git add [file]

Add a file to the **staging** area. Use in place of the full file path to add all changed files from the **current directory** down into the **directory tree**.

#### \$ git diff [file]

Show changes between working directory and staging area.

# \$ git diff --staged [file]

Shows any changes between the staging area and the repository.

#### \$ git checkout -- [file]

Discard changes in **working directory**. This operation is **unrecoverable**.

### \$ git reset [file]

Revert your **repository** to a previous known working state.

#### \$ git commit

Create a new **commit** from changes added to the **staging area**. The **commit** must have a message!

#### \$ git rm [file]

Remove file from working directory and staging area.

#### \$ git stash

Put current changes in your working directory into stash for later use.

### \$ git stash pop

Apply stored **stash** content into **working directory**, and clear **stash**.

# \$ git stash drop

Delete a specific stash from all your previous stashes.

# 04 Git branching model

# \$ git branch [-a]

List all local branches in repository. With -a: show all branches (with remote).

### \$ git branch [branch\_name]

Create new branch, referencing the current HEAD.

### \$ git checkout [-b][branch\_name]

Switch working directory to the specified branch. With -b: Git will create the specified branch if it does not exist.

### \$ git merge [from name]

Join specified **[from name]** branch into your current branch (the one you are on currently).

### \$ git branch -d [name]

Remove selected branch, if it is already merged into any other.

-D instead of -d forces deletion.

# 05 Review your work

#### \$ git log [-n count]

List commit history of current branch. -n count limits list to last n commits.

### \$ git log --oneline --graph --decorate

An overview with reference labels and history graph. One commit per line.

# \$ git log ref..

List commits that are present on the current branch and not merged into **ref**. A **ref** can be a branch name or a tag name.

#### \$ git log ..ref

List commit that are present on  $\ensuremath{\text{ref}}$  and not merged into current branch.

# \$ git reflog

List operations (e.g. checkouts or commits) made on local repository.