STORDIS
The Open Networking Expert

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Ubuntu Cheat Sheet Commands

Developers and DevOps Engineers widely use Ubuntu for their everyday workflows and essential infrastructure management activities.

To simplify your experience, we've put together this Ubuntu Cheat Sheet, designed to enhance your efficiency in system administration, development, and DevOps operations. No more wasting time searching online for Ubuntu commands—this all-encompassing guide provides everything you need. With this cheat sheet, you'll handle tasks with ease, just as you would with other helpful resources like Git or Docker Cheat Sheets.

Canonical
Ubuntu

 Courses

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 Community

System Information Commands

System Monitoring and Management

> **uname -a**
> **hostnamectl**
> **lscpu**
> **timedatectl status**

Displays all system information
Shows current hostname and related details
Lists CPU architecture information
Shows system time

> **top**
> **htop**
> **df -h**
> **free -m**
> **kill &ltprocess id&gt**

Displays real-time system processes
An interactive process viewer (needs installation)
Shows disk usage in a human-readable format
Displays free and used memory in MB
Terminates a process

Running commands

Directory navigation

> **[command] &**
> **jobs**
> **fg &ltcommand number&gt**

Runs command in the background
Displays background commands
Brings command to the foreground

> **pwd**
> **cd &ltdirectory&gt**
> **mkdir &ltdirname&gt**

Displays the current directory path
Changes the current directory
Creates a new directory

Service management

Text editing and processing

> **sudo systemctl start &ltservice&gt**
> **sudo systemctl stop &ltservice&gt**
> **sudo systemctl status &ltservice&gt**
> **sudo systemctl reload &ltservice&gt**
> **journalctl -f**
> **journalctl -u &ltunit_name&gt**

Starts a service
Stops a service
Checks the status of a service
Reloads a service's configuration
Follows the journal, showing new log messages
Displays logs for a specific systemd unit.

> **nano [file]**
> **cat &ltfile&gt**
> **less &ltfile&gt**
> **head &ltfile&gt**
> **tail &ltfile&gt**
> **awk {print} [file]**

Opens a file in the Nano text editor
Displays the contents of a file
Displays the paginated content of a file
Shows the first few lines of a file
Shows the last few lines of a file
Prints every line in a file

Cron jobs and scheduling

Archiving and Compression

> **crontab -e**
> **crontab -l**

Edits cron jobs for the current user
Lists cron jobs for the current user

> **tar -czvf &ltname.tar.gz&gt [files]**
> **tar -xvf &ltname.tar.[gz|bz|xz]&gt**

Compresses files into a tar.gz archive
Extracts a compressed tar archive

File management

Searching and finding

> **ls**
> **touch &ltfilename&gt**
> **cp &ltsource&gt &ltdestination&gt**
> **mv &ltsource&gt &ltdestination&gt**
> **rm &ltfilename&gt**

Lists files and directories
Creates an empty file or updates the last accessed date
Copies files from source to destination
Moves files or renames them
Deletes a file

> **grep &ltsearch_pattern&gt &ltfile&gt**
> **find [directory] -name &ltsearch_pattern&gt**

Compresses files into a tar.gz archive
Extracts a compressed tar archive

Package management (APT)

Package management (Snap)

> **sudo apt install &ltpackage&gt**
> **apt search &ltpackage&gt**
> **apt-cache policy &ltpackage&gt**

> **sudo apt update**
> **sudo apt upgrade**
> **sudo apt remove &ltpackage&gt**
> **sudo apt purge &ltpackage'>**

Installs a package
Searches for APT packages
Lists available package versions
Updates package lists
Upgrades all upgradable packages
Removes a package
Removes a package and all its configuration files

> **snap find**
> **sudo snap install &ltsnap_name&gt**
> **sudo snap remove &ltsnap_name&gt**
> **sudo snap refresh**
> **snap list**
> **snap info &ltsnap_name&gt**

Search for Snap packages
Installs a Snap package
Removes a Snap package
Updates all installed Snap packages
Lists all installed Snap packages
Displays information about a Snap package

User management

Group management

> **w**
> **sudo adduser &ltusername&gt**
> **sudo deluser &ltusername&gt**
> **sudo passwd &ltusername&gt**
> **su &ltusername&gt**
> **sudo passwd -l &ltusername&gt**
> **sudo passwd -u &ltusername&gt**
> **sudo change &ltusername&gt**

Shows which users are logged in
Creates a new user
Deletes a user
Sets or changes the password for a user
Switches user
Locks a user account
Unlocks a user password
Sets user password expiration date

> **id [username]**
> **groups [username]**
> **sudo addgroup &ltgroupname&gt**
> **sudo delgroup &ltgroupname&gt**

Displays user and group IDs
Shows the groups a user belongs to
Creates a new group
Deletes a group

Networking

Netplan configuration

- **ip addr show**
- **ip -s link**
- **ss -l**
- **ping**

Displays network interfaces and IP addresses
Shows network statistics
Shows listening sockets
Pings a host and outputs results

- **cat /etc/netplan/*.yaml**
- **sudo netplan try**
- **sudo netplan apply**

Displays the current Netplan configuration
Tests a new configuration for a set period of time
Applies the current Netplan configuration

Firewall management

SSH and remote access

- **sudo ufw status**
- **sudo ufw enable**
- **sudo ufw disable**
- **sudo ufw allow &ltport/service&gt**
- **sudo ufw deny &ltport/service&gt**
- **sudo ufw delete allow/deny -|-**

Displays the status of the firewall
Enables the firewall
Disables the firewall
Allows traffic on a specific port or service
Denies traffic on a specific port or service
Deletes an existing rule

- **ssh &ltuser@host&gt**
- **scp &ltuser@host&gt:&ltdestination&gt**

Connects to a remote host via SSH
Securely copies files between hosts

Git Version Control Tips

○ Here are some useful shortcuts for Ubuntu that can help network engineers and system administrators perform their tasks more efficiently. These shortcuts enable quick navigation and command execution in the terminal. By using them, you can streamline your workflow, save time, and focus on more critical tasks. From searching command history to managing multiple terminal tabs, these shortcuts cover essential functions, making everyday tasks faster and less cumbersome. Incorporating these into your routine will enhance your productivity and make your command-line experience smoother, especially when performing configuration, monitoring, and maintenance activities on Ubuntu systems.

- **Search Command History:** `Ctrl + R`
- **Cancel Current Command:** `Ctrl + C`
- **Clear Terminal Screen:** `Ctrl + L`
- **Exit Terminal:** `Ctrl + D` or type `exit`
- **Pause a Command:** `Ctrl + Z` (resume with `fg`)
- **Open a New Terminal Tab:** `Ctrl + Shift + T`
- **Switch Between Terminal Tabs:** `Ctrl + PgUp/PgDn`
- **Autocomplete Commands or Filenames:** `Tab`
- **Jump to Beginning of the Line:** `Ctrl + A`
- **Jump to End of the Line:** `Ctrl + E`
- **Delete Entire Line:** `Ctrl + U`
- **Delete from Cursor to End of Line:** `Ctrl + K`
- **Delete Word Before Cursor:** `Ctrl + W`
- **Undo Last Command:** `Ctrl + _` or `Ctrl + Shift + -`

These shortcuts will help you navigate and manage your Ubuntu system more effectively, making your workflow smoother and more efficient.

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