# tmux---complete-guidline-Beginner-to-Advanced-
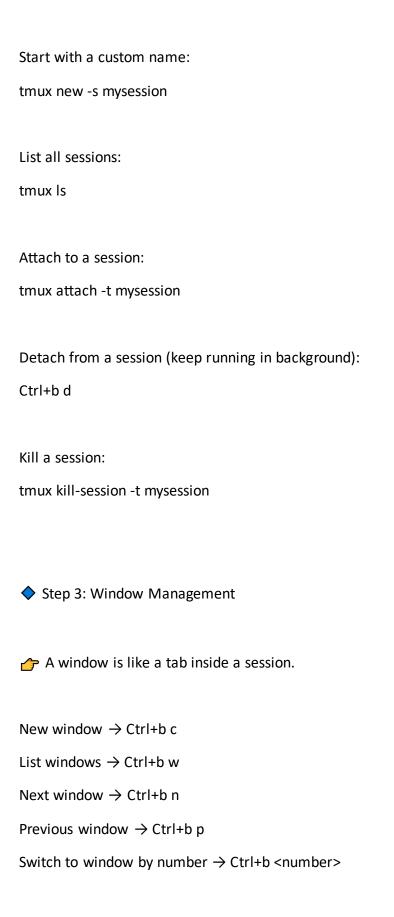
This repository contains a step-by-step guide for tmux, starting from installation up to advanced usage. It is designed for both beginners and advanced users.

🔷 Step 1: Installation

On Ubuntu/Debian:

sudo apt update && sudo apt install tmux -y

On Fedora/CentOS:

sudo dnf install tmux -y

Check installed version:

tmux -V

🔷 Step 2: Session Management

👉 A session is like a container where your terminal environment runs.

Start a new session:

tmux

Start with a custom name:

tmux new -s mysession

List all sessions:

tmux ls

Attach to a session:

tmux attach -t mysession

Detach from a session (keep running in background):

Ctrl+b d

Kill a session:

tmux kill-session -t mysession

◆ Step 3: Window Management

👉 A window is like a tab inside a session.

New window → Ctrl+b c

List windows → Ctrl+b w

Next window → Ctrl+b n

Previous window → Ctrl+b p

Switch to window by number → Ctrl+b <number>

Rename window → Ctrl+b ,

Kill window → Ctrl+b &

◆ Step 4: Pane Management

👉 Split a window into multiple panes.

Split vertically → Ctrl+b "

Split horizontally → Ctrl+b %

Switch between panes → Ctrl+b + Arrow keys

Resize pane → Ctrl+b (hold) + Arrow keys

Swap panes → Ctrl+b { or Ctrl+b }

Kill a pane → Ctrl+b x

◆ Step 5: Copy & Paste Mode

Enter copy mode → Ctrl+b [

Move cursor → Arrow keys

Start selection → Space

Copy → Enter

Paste → Ctrl+b ]

◆ Step 6: Scrolling & History

Enter scroll mode → Ctrl+b [

Use Arrow keys or PgUp/PgDn

◆ Step 7: Configuration (~/.tmux.conf)

You can customize tmux by editing ~/.tmux.conf.

Example configuration:

# Use Ctrl+a instead of Ctrl+b

unbind C-b

set-option -g prefix C-a

bind-key C-a send-prefix

# Enable mouse support

set -g mouse on

# Status bar customization

set -g status-bg black

set -g status-fg green

set -g status-left "#S "

set -g status-right "%H:%M %d-%b-%y"

Reload configuration:

tmux source-file ~/.tmux.conf

◆ Step 8: Quick Cheat Sheet

New session → tmux new -s name

Detach → Ctrl+b d

List sessions → tmux ls

Attach → tmux attach -t name

New window → Ctrl+b c

Rename window → Ctrl+b ,

Split vertically → Ctrl+b "

Split horizontally → Ctrl+b %

Switch pane → Ctrl+b + Arrow

Kill pane → Ctrl+b x

Copy mode → Ctrl+b [

◆ Conclusion

tmux is a powerful tool that allows you to manage multiple terminal sessions, windows, and panes efficiently.

By learning its basics and advanced features, you can significantly improve productivity in Linux environments.