



### Basic Commands & Navigation

#### Essential Commands

<code>pwd</code>	Print working directory - shows the current directory.
<code>ls</code>	List directory contents - displays files and directories in the current location.
<code>cd</code> <code>&lt;directory&gt;</code> >	Change directory - navigates to the specified directory.
<code>mkdir</code> <code>&lt;directory&gt;</code> >	Make directory - creates a new directory with the given name.
<code>rm</code> <code>&lt;file&gt;</code>	Remove file - deletes the specified file.
<code>rmdir</code> <code>&lt;directory&gt;</code> >	Remove directory - deletes the specified directory (must be empty).
<code>mv</code> <code>&lt;source&gt;</code> <code>&lt;destination&gt;</code> >	Move or rename - moves or renames a file or directory.
<code>cp</code> <code>&lt;source&gt;</code> <code>&lt;destination&gt;</code> >	Copy - copies a file or directory to the specified destination.

#### File Manipulation

<code>cat</code> <code>&lt;file&gt;</code>	Concatenate and print - displays the contents of a file.
<code>nano</code> <code>&lt;file&gt;</code>	Text editor - opens the nano text editor to create or modify a file.
<code>head</code> <code>&lt;file&gt;</code>	Display first lines - shows the first few lines of a file.
<code>tail</code> <code>&lt;file&gt;</code>	Display last lines - shows the last few lines of a file.
<code>grep</code> <code>&lt;pattern&gt;</code> <code>&lt;file&gt;</code>	Search - searches for a specific pattern within a file.
<code>chmod</code> <code>&lt;permissions&gt;</code> <code>&lt;file&gt;</code>	Change permissions - modifies the read, write, and execute permissions of a file.

#### Package Management (pkg)

<code>pkg update</code>	Update package lists - synchronizes the package index files from their sources.
<code>pkg upgrade</code>	Upgrade installed packages - installs the newest versions of all packages currently installed on the system.
<code>pkg install</code> <code>&lt;package&gt;</code> >	Install a package - installs the specified package and its dependencies.
<code>pkg uninstall</code> >	Uninstall a package - removes the specified package from the system.
<code>pkg search</code> <code>&lt;package&gt;</code> >	Search for a package - searches for packages based on a keyword.
<code>pkg show</code> <code>&lt;package&gt;</code> >	Show package information - displays detailed information about a specific package.

### Advanced Termux Usage

#### SSH and Remote Access

<code>pkg install openssh</code>	Install OpenSSH - installs the OpenSSH server, allowing remote access to Termux.
<code>sshd</code>	Start SSH server - starts the SSH daemon.
<code>ssh</code> <code>&lt;user&gt;@&lt;ip_address&gt;</code> > -p <code>&lt;port&gt;</code>	Connect to SSH server - connects to a remote SSH server using the specified username, IP address, and port.
<code>whoami</code>	Show current user - displays the current username.
<code>ifconfig</code>	Configure network interfaces - shows network interface configuration (requires <code>net-tools</code> ).
<code>passwd</code>	Change password - changes the password for the current user.

#### Background Processes and Task Management

<code>&amp;</code> (append to command)	Run in background - runs a command in the background.
<code>jobs</code>	List background jobs - displays a list of background processes.
<code>fg &lt;job_id&gt;</code>	Bring job to foreground - brings a background process to the foreground.
<code>bg &lt;job_id&gt;</code>	Send job to background - sends a stopped job to the background.
<code>kill &lt;pid&gt;</code>	Kill process - terminates a process with the specified process ID (PID).
<code>top</code>	Display processes - shows a dynamic real-time view of running processes.

#### Termux Utilities

<code>termux-setup-storage</code>	Setup storage - grants Termux access to external storage.
<code>termux-change-repo</code>	Change repository - allows changing the Termux package repository.
<code>termux-battery-status</code>	Show battery status - displays battery information.
<code>termux-wifi-connectioninfo</code>	Show wifi info - displays information about the current WiFi connection.
<code>termux-notification</code>	Send notification - sends a notification to the Android system.
<code>termux-clipboard-get</code>	Get clipboard content - retrieves the content from the clipboard.
<code>termux-clipboard-set</code>	Set clipboard content - sets the content to the clipboard.

# Configuration and Customization

## Termux Configuration Files

<code>~/.termux.properties</code>	Termux properties - configuration file for Termux settings.
<code>~/.bashrc</code>	Bash configuration - bash startup file, used to customize the shell environment.
<code>~/.zshrc</code>	Zsh configuration - zsh startup file, used to customize the shell environment.
<code>\$PREFIX</code>	Termux prefix - the installation directory for packages ( <code>/data/data/com.termux/files/usr</code> ).
<code>termux-change-repo</code>	Change repository - change Termux package repository.
<code>pkg install termux-tools</code>	Install Termux tools - installs a collection of Termux-specific tools.

## Customizing the Shell

<code>export PS1="..."</code>	Customize prompt - modifies the shell prompt. Example: <code>export PS1="\u@\h:\w\\$ "</code>
<code>alias &lt;alias_name&gt;='command'</code>	Create alias - creates a shortcut for a command. Example: <code>alias la='ls -la'</code>
<code>pkg install zsh</code>	Install Zsh - installs the Zsh shell for advanced customization.
<code>chsh -s /data/data/com.termux/files/usr/bin/zsh</code>	Change shell - changes the default shell to Zsh.
<code>oh-my-zsh</code>	Install oh-my-zsh - framework for managing zsh configuration.
<code>pkg install fish</code>	Install fish - installs the fish-shell.

## Termux Styling

<code>pkg install termux-style</code>	Install termux-style - install program for changing the terminal colors and font.
<code>termux-style</code>	Launch termux-style - interactive program to customize the terminal appearance.
<code>~/.termux/colors.properties</code>	Colors config file - advanced way to customize the terminal colors.
<code>~/.termux/font.ttf</code>	Custom fonts - path for custom font file in ttf format.

# Troubleshooting and Tips

## Common Issues

<b>Problem:</b> <code>pkg</code> commands are slow or failing. <b>Solution:</b> Ensure your internet connection is stable. Try changing the repository using <code>termux-change-repo</code> .
<b>Problem:</b> Unable to access external storage. <b>Solution:</b> Run <code>termux-setup-storage</code> and grant the necessary permissions.
<b>Problem:</b> SSH connection refused. <b>Solution:</b> Ensure the SSH server is running ( <code>sshd</code> ) and that the correct port is used. Check firewall settings if applicable.
<b>Problem:</b> Command not found. <b>Solution:</b> Make sure the package containing the command is installed. Use <code>pkg search &lt;command&gt;</code> to find the package and install it with <code>pkg install &lt;package&gt;</code> .

## Useful Tips and Tricks

Use tab completion to speed up command typing. Press <code>Tab</code> to auto-complete commands, file paths, and package names.
Customize your Termux environment by modifying <code>~/.bashrc</code> or <code>~/.zshrc</code> to add aliases, functions, and custom prompts.
Install a text-based web browser like <code>w3m</code> or <code>lynx</code> to browse the web from the terminal.
Utilize <code>tmux</code> or <code>screen</code> for persistent terminal sessions that can be detached and reattached later.
Leverage Termux's API to interact with Android features using commands like <code>termux-notification</code> , <code>termux-clipboard-get</code> , and <code>termux-vibrate</code> .