

# MocaccinoOS

Desktop Edition — Documentation

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Source: <https://www.mocaccino.org/docs/>

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*Mocaccino Desktop is a Gentoo-based Linux distribution oriented towards Desktop systems. It uses Luet as its package manager and delivers software as self-contained layers — making installation and upgrades as simple as possible.*

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# 1. Documentation Overview

<https://www.mocaccino.org/docs/>

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Welcome to the MocaccinoOS Desktop documentation. MocaccinoOS Desktop is a Gentoo-based Linux distribution using **Luet** as a package manager, which is static and uses containers to build packages.

## Main Features

- Simple to install and use — get a full desktop up and running in minutes
- Applications ship as self-contained layers — install and uninstall without dependency headaches
- Rolling release with LTS and mainline kernel options — always up to date
- Wide desktop environment support: KDE Plasma, GNOME, XFCE, MATE, Hyprland, and more
- Gaming-ready out of the box: Steam, gamemode, VKBasalt, and Proton support
- Luet package manager with both a command-line interface and a graphical tool (Vajo)
- Flatpak, Snap, AppImage, and Wine supported for maximum software compatibility

## 2. Mocaccino Desktop

<https://www.mocaccino.org/docs/desktop/>

Mocaccino Desktop is a Gentoo-based distribution (derived from Sabayon) oriented towards Desktop systems. It contains installable "apps" referred to internally as "layers" to install common suite of packages needed to bootstrap a pure and simple OS.

A user should be able to install KDE Plasma by running `luet install layers/plasma` and nothing else. All micropackages are abstracted away and included in a layer installed as a single package — think Android apps: Install and uninstall should be that simple.

### Why MOS Desktop is Different?

For the user, MOS Desktop is a pure and simple OS. Applications bundle all required dependencies in order to run, or share common layers used between them (e.g. MATE, GNOME, GTK-based apps). This allows OTA-alike updates without struggling with package dependencies.

From a developer standpoint, MOS takes a unique approach on package building, allowing developers to iterate locally changes to packages easily, using Docker to build packages locally or Kubernetes in a cluster.

### 2.1 Download and Install

<https://www.mocaccino.org/docs/desktop/install/>

#### Download

<https://www.mocaccino.org/docs/desktop/install/download/>

Official releases can be downloaded from the **Github repository**:

<https://github.com/mocaccinoOS/mocaccino/releases>

#### Login

The live images should log you into the graphical environment automatically. If you require a password for the default user:

- Default username and password is **mocaccino**

#### Installation

<https://www.mocaccino.org/docs/desktop/install/installation/>

This guide walks you through installing MocaccinoOS to your hard drive using the **Calamares graphical installer**. It applies to all editions including KDE Plasma, GNOME, XFCE, and MATE.

#### Step 1: Boot into the Live Environment

After downloading the MocaccinoOS ISO and writing it to a USB stick, boot your computer from the USB. You'll be greeted with the live session desktop. From here you can explore the live environment or go straight to installation.

#### Step 2: Launch the Calamares Installer

Look for the installer icon labeled "Install MocaccinoOS" on the desktop or in the application menu. Click to start the installation process.

#### Step 3: Choose Your Language

Select your preferred language for the installation process. This will also set the system language after installation. Click Next to continue.

#### **Step 4: Select Your Location and Time Zone**

Choose your region and time zone. This sets your system clock and affects time/date display. Click Next to proceed.

#### **Step 5: Keyboard Layout**

Choose the keyboard layout that matches your hardware or preferences. You can test your keyboard in the input field provided. Click Next when ready.

#### **Step 6: Partition Your Disk**

Choose how to partition your hard drive. Options: Erase disk (wipes entire disk), Replace a partition, or Manual partitioning. Make sure to back up important data before continuing. Click Next once you've made your choice.

#### **Step 7: Create a User Account**

Enter your full name, desired username, and password. Optionally choose to log in automatically or use the same password for the administrator account. Click Next to continue.

#### **Step 8: Summary**

Review the installation summary. Double-check partition choices and user information. If correct, click Install and confirm when prompted.

#### **Step 9: Installation Progress**

Calamares will now install MocaccinoOS to your disk. This can take a few minutes.

#### **Step 10: Installation Complete**

Once finished, you'll see a confirmation screen. You can choose to restart immediately or stay in the live session. After rebooting, log into your new MocaccinoOS system using the username and password you created. Remove the installation media when prompted and reboot.

## **2.2 Package Management (Luet)**

<https://www.moccino.org/docs/desktop/luet/>

MocaccinoOS uses **Luet** as a package manager. Learn how to work with Luet in the command shell or by using Vajo, the GUI/TUI tool.

### ***Using the Command Shell***

[https://www.moccino.org/docs/desktop/luet/luet\\_cli\\_commands/](https://www.moccino.org/docs/desktop/luet/luet_cli_commands/)

Common luet commands for package management:

```
luet install <package> — Install a package  
luet uninstall <package> — Remove a package  
luet upgrade — Upgrade all installed packages  
luet search <query> — Search for packages in enabled repositories  
luet search --installed <query> — Search among installed packages  
luet repo list — List installed repositories  
luet repo update — Update repository metadata
```

### ***Vajo — GUI/TUI for Luet***

<https://www.moccino.org/docs/desktop/luet/vajo/>

Vajo is MocaccinoOS's graphical and terminal-based frontend for the Luet package manager. It lets you browse, install, remove, and update packages without needing to use the command line directly.

To install Vajo:

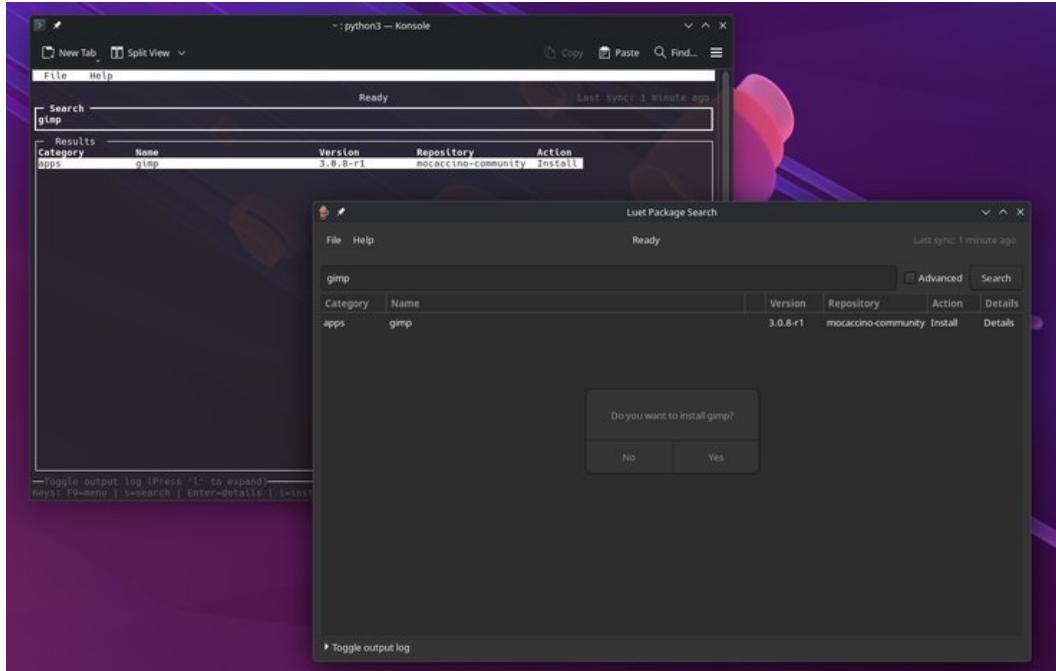
```
sudo luet install apps/vajo
```

Vajo ships in two modes:

- **GUI mode** — a full graphical application for desktop users. Launch it from your application menu or by running `vajo-gui`.
- **TUI mode** — an interactive ncurses terminal interface for users who prefer working in a terminal. Run `vajo-tui` to launch it.

Both modes provide the same core functionality:

- Browse and search available packages across all enabled repositories
- Install and remove packages with a single click or keypress
- Upgrade the entire system
- View installed packages and their details
- Manage repositories



Vajo TUI (left) and GUI (right) showing a search for GIMP

## Repositories

<https://www.mocaccino.org/docs/desktop/luet/repositories/>

By default MocaccinoOS ships with the **mocaccino-desktop-stable** repository installed. This repository has all the core layers and desktop environments.

### Community Repository

Any additional software compiled and packaged by the MocaccinoOS project is available in the community repository. For example, neovim, alacritty, or gimp require installing the community repository first:

```
$ sudo luet install repository/mocaccino-community-stable
```

### Identify Installed Repositories

```
$ sudo luet repo list
```

### Switch Between Stable and Development Repositories

**■ Warning:** Do not mix development and stable repositories! Be sure to only have installed stable or the development repositories.

To remove development repositories:

```
$ luet uninstall -y repository/mocaccino-extra repository/mocaccino-desktop  
repository/mocaccino-os-commons
```

To enable stable repositories:

```
$ luet install -y --nodeps repository/mocaccino-extra-stable  
repository/mocaccino-desktop-stable repository/mocaccino-os-commons-stable
```

## 2.3 Software Installation

<https://www.moccino.org/docs/desktop/software/>

Different ways to install and configure software on MoccinoOS Desktop.

### Docker

<https://www.moccino.org/docs/desktop/software/docker/>

Docker allows you to run applications in isolated containers. Install Docker and enable the service:

```
sudo luet install container/docker systemd-service/dockerd sudo systemctl enable docker sudo  
systemctl start docker
```

If you plan to use Docker as a regular user (not just root), also install these packages:

```
sudo luet install entity/docker acct-group/docker
```

Then add your user to the docker group so you can run docker commands without sudo:

```
sudo usermod -aG docker $USER
```

Log out and back in for the group change to take effect. Verify Docker is working:

```
docker run hello-world
```

#### Example: Apache Webserver with Docker

[https://www.moccino.org/docs/desktop/software/docker/apache\\_with\\_docker/](https://www.moccino.org/docs/desktop/software/docker/apache_with_docker/)

A practical example of running a web server inside a Docker container.

Create the webserver document root in your home directory:

```
mkdir ~/website
```

Pull the Apache httpd:2.4 container from Docker Hub and map the document root:

```
sudo docker run -dit --name my-web -p 8080:80 \ -v ~/website/:/usr/local/apache2/htdocs/  
httpd:2.4
```

Confirm the container is running:

```
sudo docker ps
```

Create a simple homepage:

```
cat <<EOF >> ~/website/index.html <!DOCTYPE html> <html lang="en"> <head> <meta  
charset="UTF-8"> <title>My website rocks!</title> </head> <body> <h1>Welcome to my  
homepage!</h1> </body> </html> EOF
```

Open <http://localhost:8080/> in your browser to see the result.

When done, stop and clean up the container:

```
sudo docker stop my-web sudo docker rm my-web sudo docker image remove httpd:2.4
```

### Flatpak

<https://www.moccino.org/docs/desktop/software/flatpak/>

MoccinoOS Desktop supports Flatpak, and its usage is encouraged for packages like Spotify, Telegram, and others not found in the default desktop repository or community repository.

To install Flatpak, run as root:

```
sudo luet install apps/flatpak
```

Once Flatpak is installed, add the Flathub repository from your user account:

```
flatpak remote-add --if-not-exists flathub https://flathub.org/repo/flathub.flatpakrepo
```

To install an app, for example Spotify:

```
flatpak install Spotify
```

## **Search**

Search for applications across all added remotes:

```
flatpak search gimp
```

## **Running Applications**

Run an installed application by its ID:

```
flatpak run org.gimp.GIMP
```

## **Updating**

Update all installed Flatpak applications and runtimes:

```
flatpak update
```

## **Accessing External Paths**

Flatpak runs applications in a sandbox that prevents access to host content. To expose a path to a specific app:

```
flatpak override --user --filesystem=/mnt org.app.Id
```

**Flatseal** is a GUI permissions manager offering simple point-and-click permission controls for Flatpak apps. Install it from Flathub: flatpak install flathub com.github.tchx84.Flatseal

## **Snap**

<https://www.moccino.org/docs/desktop/software/snap/>

**■ Warning:** Using Snap is currently experimental on MoccinoOS. Flatpak is the preferred alternative.

Besides the preferred Flatpak, MoccinoOS also offers Snap support.

## **Installing and Configuring**

To install Snap, run as root:

```
luet install apps/snapd
```

Once installed, enable the required service:

```
systemctl enable --now snapd.socket
```

## **AppArmor**

Snap's fallback behavior without AppArmor is flaky, and some snaps won't work at all. AppArmor is pulled in as a dependency of apps/snapd so it is already on the system. Enable the AppArmor services:

```
systemctl enable --now apparmor.service snapd.apparmor.service
```

Enable the required boot parameters by editing /etc/default/grub and appending these to GRUB\_CMDLINE\_LINUX:

```
GRUB_CMDLINE_LINUX="apparmor=1 security=apparmor"
```

After editing, regenerate the GRUB config and restart:

```
sudo grub-mkconfig -o /boot/grub/grub.cfg
```

## **Using Snap**

Install an application, for example Spotify:

```
sudo snap install spotify
```

Search for applications:

```
sudo snap find spotify
```

Run an installed application:

```
sudo snap run spotify
```

Update all installed Snap applications:

```
snap refresh
```

## AppImage

<https://www.moccino.org/docs/desktop/software/appimage/>

AppImages are self-contained applications that run on any Linux distribution. Download an AppImage, make it executable, and run it directly. No installation required.

```
chmod +x application.AppImage ./application.AppImage
```

## Whalebrew

<https://www.moccino.org/docs/desktop/software/whalebrew/>

Whalebrew allows you to install Docker images as if they were native applications.

## Wine

<https://www.moccino.org/docs/desktop/software/wine/>

Wine is a compatibility layer that allows you to run many Microsoft Windows applications on Linux by translating Windows API calls into native Linux calls — without fully emulating Windows. This means Windows programs can often run nearly as fast as native Linux software.

**Why use Wine:** For Windows-only applications or games with no native Linux equivalent. It avoids the overhead of full virtualization, keeping resource use low. You don't need to dual-boot or run a full Windows VM.

**Key limitations:** Wine does not guarantee perfect compatibility — some applications run flawlessly, others only partially or not at all. For 32-bit applications on a 64-bit system, 32-bit compatibility libraries are needed. Drivers, low-level kernel integrations, and copy-protected software often don't work under Wine.

Wine is available in the **community repository**. If you have enabled this repository, install it with:

```
sudoluetinstallapps/wine-staging
```

The apps/wine-staging layer bundles Wine (Staging) with necessary 32-bit/multilib support, plus optional helper tools Winetricks and Protontricks — useful for installing common Windows runtimes (fonts, DirectX/3D libraries, .NET, etc.).

Configure Wine (initializes your default Wine prefix, creates a fake "C:" drive and registry):

```
winecfg
```

Run a Windows program:

```
wine /path/to/program.exe
```

For games or complex applications relying on 3D graphics, consider using **Lutris** (see Gaming section) which manages Wine versions and dependencies for you.

## Waydroid

<https://www.moccino.org/docs/desktop/software/waydroid/>

Waydroid allows running Android applications on Linux through a container-based approach. It requires a Wayland session to work.

## 2.4 Desktop Environments

[https://www.moccino.org/docs/desktop/desktop\\_environments/](https://www.moccino.org/docs/desktop/desktop_environments/)

MoccinoOS supports a wide range of desktop environments, all installable as single layer packages using Luet. After installing a desktop environment, restart your system and select it from the login screen.

### KDE Plasma

```
sudo luet install layers/plasma layers/kde-apps-minimal apps/discover
```

The layers/plasma package ships with the SDDM login manager. To enable it:

```
sudo systemctl enable sddm --force
```

### GNOME

```
sudo luet install layers/gnome apps/gnome-software
```

The layers/gnome package ships with the GDM login manager. To enable it:

```
sudo systemctl enable gdm --force
```

### MATE

```
sudo luet install layers/mate themes/mate
```

### Xfce

```
sudo luet install layers/xfce
```

### LXQT

```
sudo luet install layers/lxqt
```

### Cinnamon

```
sudo luet install layers/cinnamon
```

### Enlightenment

```
sudo luet install layers/enlightenment
```

### Trinity

```
sudo luet install layers/trinity
```

### Hyprlnd

Hyprlnd is available in the community repository (install it first if you haven't). It includes the Kitty terminal emulator:

```
sudo luet install layers/hyprlnd apps/kitty
```

### Fluxbox

```
sudo luet install layers/fluxbox
```

### COSMIC

```
sudo luet install layers/cosmic
```

## **Login Managers**

If you prefer **LightDM** as your login manager:

```
sudo luet install apps/lightdm sudo systemctl enable lightdm --force
```

If you prefer **Slim**:

```
sudo luet install apps/slim sudo systemctl enable slim --force
```

## 2.5 Gaming

<https://www.mocaccino.org/docs/desktop/gaming/>

### Steam

We recommend installing Steam directly from the desktop repository. You can also use the Flatpak version, but that may give problems because it runs in a sandbox.

```
sudo luet install apps/steam
```

### Gamemode

Gamemode is bundled in the `apps/steam` package — installing Steam gives you Gamemode automatically. To launch a game with Gamemode, right-click the game in the Steam Library, select Properties, and enter this in the Launch Options box:

```
gamemode run %command%
```

### VKBasalt

VKBasalt is a post-processing layer for Vulkan that enhances graphics. It only works with Vulkan games, including all Proton games. VKBasalt is also bundled in the `apps/steam` package. To enable it for a game, add this to Launch Options:

```
ENABLE_VKBASALT=1 %command%
```

For non-Steam games, run from the terminal:

```
ENABLE_VKBASALT=1 mygame
```

### Additional Steam Library on NTFS

If you share an NTFS partition between Windows and MocaccinoOS containing a Steam library, this can cause issues launching games. Due to NTFS, filenames with characters invalid on Windows (such as a colon :) cause disk errors. Fix by symlinking the `/compatdata` folder to a Linux partition:

```
mkdir -p ~/.steam/steam/steamapps/compatdata ln -s ~/.steam/steam/steamapps/compatdata  
/media/gamedisk/Steam/steamapps/
```

**■ Warning:** If a `/compatdata` folder already exists on the mounted NTFS disk BEFORE creating the symlink, DELETE IT first!

### Proton GE

Proton GE is a fork of Valve's Proton by GloriousEggroll (Thomas Crider, who works at Red Hat). It includes additional patches and bleeding-edge technology that can increase performance and compatibility.

Proton GE is available in the **community repository**. If you have enabled this repository, install it with:

```
sudo luet install apps/proton-ge-custom-bin
```

After installation, restart Steam. Proton GE will then appear in the compatibility settings for any game.

### Heroic Games Launcher

For installing and playing games from the Epic Games Store or GOG, we recommend **Heroic Games Launcher**. Install it via Flatpak:

```
flatpak install flathub com.heroicgameslauncher.hgl
```

### Lutris

Lutris is an alternative gaming platform for Linux that manages Wine versions and game-specific configurations. It is available in the **community repository**. If you have enabled this repository, install it with:

```
sudo luet install apps/lutris
```

## Nvidia Drivers

MocaccinoOS does not come with Nvidia drivers pre-installed. If you require proprietary drivers:

```
sudo luet install kernel-modules/nvidia-drivers-lts
```

## MangoHud

MangoHud is a Vulkan and OpenGL overlay for monitoring FPS, temperatures, CPU/GPU load, and more. It is available in the [community repository](#). If you have enabled this repository, install it with:

```
sudo luet install apps/mangohud
```

## 2.6 File Sharing

<https://www.moccino.org/docs/desktop/file-sharing/>

MoccinoOS Desktop provides several protocols for sharing files over a network: Samba (for Windows/macOS compatibility), NFS (for Linux-to-Linux sharing), and SFTP (secure transfer over SSH).

### Samba Configuration

<https://www.moccino.org/docs/desktop/file-sharing/samba/>

Samba allows MoccinoOS to share files and printers with Windows, macOS, and other Linux systems using the SMB protocol. The core packages are already installed — you only need to configure it.

#### Configure Global Settings

MoccinoOS provides a default config file. Copy it before making any changes:

```
sudo cp /etc/samba/smb.conf.default /etc/samba/smb.conf
```

The config file is now at `/etc/samba/smb.conf`. The default [global] section works for most simple setups.

#### Define a Share

To create a shared folder, add a section to the end of `/etc/samba/smb.conf`:

```
[Shared_Docs] comment = Collaborative Document Sharing path = /mnt/storage/shared_data  
browsable = yes guest ok = no read only = no create mask = 0775 directory mask = 0775 valid  
users = @staff, username
```

Key options: `path` — the directory to share. `guest ok = no` requires authentication. `valid users` restricts access to specific users or groups (prefix groups with `@`).

#### Add Samba Users

Samba maintains its own password database separate from Linux. Any user who needs access must be added:

```
sudo smbpasswd -a username
```

#### Start and Enable Samba

```
sudo systemctl enable smb sudo systemctl start smb
```

### NFS Configuration

<https://www.moccino.org/docs/desktop/file-sharing/nfs/>

NFS (Network File System) is ideal for sharing directories between Linux systems on a local network. Install the required utilities:

```
luet install net-fs/nfs-utils
```

To share a directory, add it to `/etc/exports`:

```
/srv/share 192.168.1.0/24(rw,sync,no_subtree_check)
```

Apply the export and enable the service:

```
sudo exportfs -ra sudo systemctl enable nfs-server sudo systemctl start nfs-server
```

On the client, mount the share:

```
sudo mount server-ip:/srv/share /mnt/nfs
```

To mount automatically on boot, add to `/etc/fstab`:

```
server-ip:/srv/share /mnt/nfs nfs defaults 0 0
```

## SFTP Configuration

<https://www.moccino.org/docs/desktop/file-sharing/sftp/>

SFTP (Secure File Transfer Protocol) transfers files over an encrypted SSH connection. MoccinoOS includes OpenSSH, so no additional installation is needed.

Enable and start the SSH service:

```
sudo systemctl enable sshd sudo systemctl start sshd
```

Connect from a remote machine:

```
sftp username@your-ip-address
```

For graphical SFTP access, use a file manager that supports SFTP (e.g. Dolphin, Nautilus, Thunar) or a dedicated client like FileZilla.

## 2.7 Virtualization

<https://www.moccino.org/docs/desktop/virtualization/>

MoccinoOS supports virtualization using KVM/QEMU and libvirt.

### *Virt-manager*

<https://www.moccino.org/docs/desktop/virtualization/virt-manager/>

Virt-manager is a graphical interface for managing virtual machines via libvirt. Install it:

```
luet install apps/virt-manager
```

Virt-manager provides a desktop user interface for managing virtual machines through libvirt, allowing you to create, configure, and control virtual machines from a GUI.

## 2.8 Performance Optimizations

<https://www.moccino.org/docs/desktop/performance/>

MoccinoOS includes optimized system and network settings by default. These tweaks enhance networking, memory management, and filesystem efficiency. Some settings are enabled by default; additional examples are provided for users who want further customization.

**■ Warning:** Do NOT edit /usr/lib/sysctl.d/70-moccino.conf — it will be overwritten on system updates.  
To make custom changes permanent, create /etc/sysctl.d/99-custom.conf instead.

### *Default Optimizations (Already Enabled)*

The following settings are active out of the box:

```
net.core.default_qdisc=fq # FQ queuing: reduces bufferbloat net.ipv4.tcp_congestion_control=bbr
# BBR: low-latency congestion control vm.swappiness=10 # Reduce swap usage for responsiveness
vm.dirty_ratio=20 # Prevent stutters via disk writeback vm.dirty_background_ratio=5
vm.vfs_cache_pressure=50 # Better I/O performance fs.inotify.max_user_watches=524288 # For
IDEs, Docker, game engines fs.inotify.max_user_instances=1024
```

### *Customizing TCP Buffer Sizes*

**■ Warning:** Only use ONE of the following profiles at a time — do not mix them.

#### **Low Latency (Gaming, Video Calls):**

```
net.core.rmem_max=4194304 net.core.wmem_max=4194304 net.ipv4.tcp_rmem=4096 87380 4194304
net.ipv4.tcp_wmem=4096 16384 4194304
```

#### **High Bandwidth (File Transfers, Streaming):**

```
net.core.rmem_max=16777216 net.core.wmem_max=16777216 net.ipv4.tcp_rmem=4096 87380 16777216
net.ipv4.tcp_wmem=4096 65536 16777216
```

Copy your chosen settings into /etc/sysctl.d/99-custom.conf to make them permanent.

### *Adjusting vm.max\_map\_count*

The default vm.max\_map\_count=65530 works for most users. Some applications (Elasticsearch, game engines, AI tools) may need a higher limit:

```
echo "vm.max_map_count=262144" >> /etc/sysctl.d/99-custom.conf sudo sysctl --system
```

Recommended values: 65530 (default), 262144 (databases/Elasticsearch), 1048576+ (high-performance workloads). Note: the game DayZ requires 1048576.

### *Applying Changes*

After modifying /etc/sysctl.d/99-custom.conf, apply immediately without rebooting:

```
sudo sysctl --system
```

To verify a setting:

```
sysctl net.ipv4.tcp_congestion_control
```

To restore defaults, delete your custom file and re-apply:

```
sudo rm /etc/sysctl.d/99-custom.conf sudo sysctl --system
```

## 2.9 Internationalization

<https://www.moccino.org/docs/desktop/internationalization/>

MoccinoOS supports internationalization features which are not installed by default but can be added at any time. The following features are available:

- Input methods (Chinese, Japanese, Korean, etc.) — see Fcitx or IBus sections below
- Fonts for additional scripts (CJK, emoji, etc.)
- Locale and language data

### ***Input Method — Fcitx***

[https://www.moccino.org/docs/desktop/internationalization/input\\_method/fcitx/](https://www.moccino.org/docs/desktop/internationalization/input_method/fcitx/)

Fcitx is an input method framework with support for Chinese, Japanese, Korean, and other languages. Install the Fcitx layer:

```
luet install layers/fcitx
```

The `layers/fcitx` package includes fcitx-based input methods including Chinese table and phonetic engines.

### ***Input Method — IBus***

[https://www.moccino.org/docs/desktop/internationalization/input\\_method/ibus/](https://www.moccino.org/docs/desktop/internationalization/input_method/ibus/)

IBus (Intelligent Input Bus) is an alternative input method framework. It supports a wide variety of input methods for different languages.

### ***Spell Checking Dictionaries***

<https://www.moccino.org/docs/desktop/internationalization/spellcheck/>

Install spell checking dictionaries for your language to enable spell checking in supported applications. Dictionaries are available through the Hunspell package system.

## 3. General Section

<https://www.mocaccino.org/docs/general/>

**■ Warning:** Note: Mocaccino and Luet are under active development. Some features may change between updates. It is always a good idea to back up important data before making significant system changes.

This section covers system configuration topics that apply to all MocaccinoOS installations.

### 3.1 Network Configuration

<https://www.mocaccino.org/docs/general/network-config/>

By default your system is configured with DHCP using **Network Manager**, which is installed as part of the desktop layer and handles Wi-Fi and wired connections automatically.

#### *Switching to systemd-networkd*

If you want to use **systemd-networkd** instead of Network Manager, follow these steps.

First disable Network Manager and enable systemd-networkd:

```
systemctl stop NetworkManager
systemctl disable NetworkManager
systemctl enable
systemd-networkd
```

Enable the systemd-resolved service:

```
systemctl enable systemd-resolved
systemctl start systemd-resolved
```

List available network connections:

```
networkctl
```

This will display output like:

```
IDX LINK TYPE OPERATIONAL SETUP
1 lo loopback carrier unmanaged
2 enp3s0 ether routable
configured
3 enp2s0 ether off unmanaged
```

#### *Static IP Configuration*

Create a network config file for your interface (replace enp3s0 with your interface name):

```
nano /etc/systemd/network/00-enp3s0.network
```

Add the following for a static address:

```
[Match] Name=enp3s0 [Network] Address=192.168.1.50/24 Gateway=192.168.1.1 DNS=192.168.1.1
```

#### *DHCP Configuration*

For DHCP, use the same file path but with this content:

```
[Match] Name=enp3s0 [Network] DHCP=yes
```

### 3.2 Switching Kernels

<https://www.mocaccino.org/docs/general/kernels/>

MocaccinoOS images ship with the latest LTS kernel by default. It is possible to switch kernels by running `mos kernel-switcher`.

**■ Warning:** WARNING: Due to a known bug, after switching kernels you may end up without a working initramfs, causing the system to fail to boot. Make sure you have the proper `kernel/mocaccino-lts-initramfs` or `kernel/mocaccino-initramfs` installed BEFORE rebooting! See: <https://github.com/mocaccinoOS/mocaccino/issues/109>

## **List Available Kernels**

```
mos kernel-switcher list
```

## **Switch to Main Kernel**

To switch to the main kernel (updated more frequently):

```
mos kernel-switcher switch kernel/mocaccino-full
```

## **Switch to LTS Kernel**

To switch to the LTS kernel:

```
mos kernel-switcher switch kernel/mocaccino-lts-full
```

## **3.3 System Config Files**

<https://www.mocaccino.org/docs/general/system-config/>

MocaccinoOS Desktop automatically protects /etc from overwriting user-override changes. However, upgrades might require overwriting and upgrading specific default configuration. The mos CLI embeds a config-update tool compatible with etc-update and dispatch-conf.

### **Check for Pending Config Changes**

To show a summary of config changes that require merging:

```
$ mos config-update check Files with unmerged config files: 1 - /etc/test/foo (2 unmerged config files)
```

### **Merging Configuration**

To merge configurations interactively:

```
mos config-update update
```

To check and merge all files one by one:

```
mos config-update update -a
```

### **Auto-merging**

To auto-merge all configurations without interactive prompts:

```
mos config-update update --interactive=false
```

## 4. Contribution Guidelines

<https://www.mocaccino.org/docs/contribution-guidelines/>

Contributing to MocaccinoOS. The project is open-source and community-driven. Contributions are welcome in all forms:

- **Bug Reports:** Open an issue at <https://github.com/mocaccinoOS/mocaccino/issues>
- **Pull Requests:** Fork the relevant repository and submit a PR
- **Documentation:** Help improve the docs by editing pages on GitHub
- **Package Requests:** Request new packages for the community repository
- **Package Contributions:** Submit PRs to the community repository

When contributing to MocaccinoOS Desktop packages, make sure to:

- Read the Luet documentation on package building
- Follow the existing package structure and conventions
- Test changes on a test system before submitting
- Revbump reverse dependencies when making breaking changes

Key repositories:

- Main repository: <https://github.com/mocaccinoOS/mocaccino>
- Desktop packages: <https://github.com/mocaccinoOS/desktop>
- Community repository: <https://github.com/mocaccinoOS/community-repository>
- Website/Docs: <https://github.com/MocaccinoOS/website>

## 5. Support / Donate

<https://www.mocaccino.org/docs/donate/>

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MocaccinoOS is currently supported by community donations. While development continues, funding helps sustain long-term work.

MocaccinoOS builds on the incredible work of the Gentoo Linux community. All packages are compiled on the project's own infrastructure powered by Kairos.

If you find MocaccinoOS useful and would like to help keep the project healthy, consider supporting via donations.

Donate page: <https://www.mocaccino.org/docs/donate/>

# Appendix: Quick Reference

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## Common Luet Commands

```
luet install <package>
Install a package

luet uninstall <package>
Uninstall a package

luet upgrade
Upgrade all packages

luet search <query>
Search packages in repositories

luet search --installed <query>
Search installed packages

luet repo list
List installed repositories

luet repo update
Update repository metadata

luet cleanup
Clean up cache and downloaded packages

luet install repository/<repo-name>
Add a repository

luet uninstall repository/<repo-name>
Remove a repository
```

## Key Repositories

- **moccaccino-desktop-stable** — Core layers and desktop environments (installed by default)
- **moccaccino-community-stable** — Community packages (neovim, alacritty, gimp, etc.)
- **moccaccino-extra-stable** — Extra MoccaccinoOS packages
- **luet** — Official Luet repository

## Useful Links

- **Documentation:** <https://www.moccaccino.org/docs/>
- **Issue Tracker:** <https://github.com/moccaccinoOS/moccaccino/issues>
- **Packages:** <https://packages.moccaccino.org>
- **Community:** <https://www.moccaccino.org/community/>
- **GitHub Organization:** <https://github.com/moccaccinoOS>
- **Luet Documentation:** <https://luet-lab.github.io/docs/>