

# Ledger Live AppImage on Linux Mint — Persistent Launcher & Update Workflow

## ? Objective

Create and maintain a stable Ledger Live setup on Linux Mint that:

- uses a **custom persistent icon**
  - survives **log out / reboot**
  - continues to work after **AppImage updates**
  - avoids repeated manual configuration
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## ? Overview

Ledger Live is run as an AppImage stored in a fixed location, with a `.desktop` launcher pointing to:

- a **static AppImage filename**
- a **separate, permanent icon file**

This ensures updates only affect the binary, not the launcher or icon.

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## ?? Folder Structure

```
~/AppImages/  
├─ ledger-live.AppImage  
├─ icons/  
└─ ledger.png
```

- `ledger-live.AppImage` → replaced on updates
- `ledger.png` → permanent icon (never changes)

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# ? Desktop Launcher

Location:

~/Desktop/ledger-live.desktop

Contents:

```
[Desktop Entry]
Type=Application
Name=Ledger Live
Exec=/home/coolbaron/AppImages/ledger-live.AppImage
Icon=/home/coolbaron/AppImages/icons/ledger.png
Terminal=false
Categories=Finance;
```

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# ? Key Principle

The setup separates responsibilities:

- **AppImage = replaceable component (software)**
- **Icon = static asset (visual identity)**
- **Launcher = fixed reference (glue)**

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# ? Update Workflow

## 1. Download new version

Saved to:

~/Downloads/ledger-live-desktop-<version>.AppImage

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## 2. Verify download (recommended)

```
ls -lh ~/Downloads | grep ledger
```

Expected size: ~150MB+

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## 3. Replace existing ApplImage (safe method)

```
mv ~/Downloads/ledger-live-desktop-2*.ApplImage ~/ApplImages/ledger-live.ApplImage  
chmod +x ~/ApplImages/ledger-live.ApplImage
```

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## 4. Test before use

```
~/ApplImages/ledger-live.ApplImage
```

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## ?? Icon Handling

Icon location:

```
/home/coolbaron/ApplImages/icons/ledger.png
```

## ? Behaviour

- Not affected by updates
- Not tied to Ledger Live version
- No need to re-download

## ? Do NOT

- delete or move the icon
  - change the icon path
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## ? Auto vs Manual Updates

## ? In-App Auto Update Behaviour

When clicking **“Update”** inside Ledger Live:

- downloads a new Applmage (usually to `~/Downloads` or `/tmp`)
  - launches the new version
  - does **not reliably**:
    - replace existing Applmage
    - preserve filename
    - remove older versions
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## ?? Impact on This Setup

Your launcher points to:

```
Exec=/home/coolbaron/AppImages/ledger-live.Applmage
```

If auto-update downloads a new version:

- Desktop shortcut → still opens old version
  - New version → only runs manually
  - Multiple Applmages may accumulate
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## ? Why Auto Update Is Not Ideal

- breaks single-file structure
- introduces version drift
- creates duplicate binaries

- reduces predictability
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## ? Recommended Approach — Manual Update

```
mv ~/Downloads/ledger-live-desktop-2*.ApplImage ~/ApplImages/ledger-live.ApplImage
chmod +x ~/ApplImages/ledger-live.ApplImage
```

## ? Benefits

- deterministic behaviour
  - single source of truth
  - launcher always correct
  - no duplicates
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## ? Optional Hybrid Approach

1. Allow Ledger Live to download update
2. Then manually replace:

```
ls -lh ~/Downloads | grep ledger
mv ~/Downloads/ledger-live-desktop-2*.ApplImage ~/ApplImages/ledger-live.ApplImage
chmod +x ~/ApplImages/ledger-live.ApplImage
```

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## ?? Common Pitfalls

### Corrupted ApplImage (e.g. 75 bytes)

Symptoms:

```
ls -lh ~/ApplImages/ledger-live.ApplImage
```

Shows very small file size

→ Cause:

- incomplete download
- incorrect wildcard match

→ Fix:

- delete file
  - re-download
  - move explicitly
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## Duplicate Appliance Images

ledger-live-desktop-2.x.x.ApplianceImage

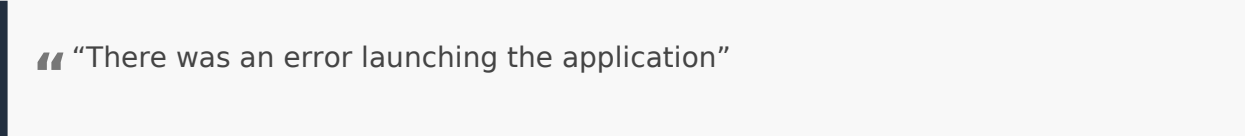
→ Remove duplicates and keep:

ledger-live.ApplianceImage

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## Launcher failure

Error:

A light gray rectangular box with a vertical line on the left side, containing the text: "There was an error launching the application".

“There was an error launching the application”

→ Cause:

- broken ApplianceImage

→ Fix:

- replace ApplianceImage
-

# ? Verification Commands

```
ls -lh ~/Applimages/ledger-live.Applimage  
ls -l ~/Applimages/icons/ledger.png  
cat ~/Desktop/ledger-live.desktop
```

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# ? Troubleshooting

```
chmod +x ~/Desktop/ledger-live.desktop  
cinnamon --replace &
```

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# ? Maintenance Notes

- Only one Applimage should exist
  - Icon remains unchanged indefinitely
  - Launcher requires no further edits
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# ? Conclusion

This setup provides a clean, reliable, and controlled way to run Ledger Live on Linux Mint.

By separating:

- executable (Applimage)
- icon (static asset)
- launcher (fixed reference)

you achieve a **stable, repeatable, low-maintenance workflow**.

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# ? Update Command (Final)

```
mv ~/Downloads/ledger-live-desktop-2*.ApplImage ~/ApplImages/ledger-live.ApplImage  
chmod +x ~/ApplImages/ledger-live.ApplImage
```

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# ? Guiding Principle

“ One ApplImage. One path. One launcher.

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