

Ledger Live Appliance 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 **Appliance updates**
 - avoids repeated manual configuration
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📋 Overview

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

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

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

⚙️ Folder Structure

```
~/Appliances/  
├── ledger-live.Appliance  
├── 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;
```

☐ 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>.ApplImage

2. Verify download (recommended)

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

Expected size: ~150MB+

3. Replace existing ApplImage (safe method)

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

4. Test before use

~/ApplImages/ledger-live.ApplImage

Icon Handling

Icon location:

✓ 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
-

⚡ Auto vs Manual Updates

☐☐ In-App Auto Update Behaviour

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

- downloads a new AppImage (usually to `~/Downloads` or `/tmp`)
 - launches the new version
 - does **not reliably**:
 - replace existing AppImage
 - preserve filename
 - remove older versions
-

⚠ Impact on This Setup

Your launcher points to:

Exec=/home/coolbaron/AppImages/ledger-live.AppImage

If auto-update downloads a new version:

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

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

□ 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
-

□□ 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
```

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
-

Duplicate ApplImages

```
ledger-live-desktop-2.x.x.ApplImage
```

→ Remove duplicates and keep:

```
ledger-live.ApplImage
```

Launcher failure

Error:

```
“There was an error launching the application”
```

→ Cause:

- broken AppImage

→ Fix:

- replace AppImage
-

☐ Verification Commands

```
ls -lh ~/AppImages/ledger-live.AppImage
```

```
ls -l ~/AppImages/icons/ledger.png
```

```
cat ~/Desktop/ledger-live.desktop
```

☐ Troubleshooting

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

```
cinnamon --replace &
```

☐ Maintenance Notes

- Only one AppImage should exist
- Icon remains unchanged indefinitely
- Launcher requires no further edits

□ 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**.

□□ Update Command (Final)

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

□□ Guiding Principle

“ One ApplImage. One path. One launcher.

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